AGTCCGGGGG	ACCTTTTTAG	TCGGTAGATT	GAGATTGCAA	ACAAATCTGC	ATCTACATTG	4860
AAAGCTTAAT	TTCTAATAAT	TGAAAAAATC	GAATGAAAAA	TTTCTTACCT	TCATTCACAG	4920
AGCTCGATTT	CAGAGCTCTT	TTTGCTAGCT	TATTCATACT	TTTCTGAATT	TCGAAAAAGA	4980
AATGTAAGCG	TTTGATAGAT	TTACAAAAAG	ATTGTATAAT	AGGGATAAGA	ATAGAAAAGG	5040
AGAAGTCTCA	TGGCAGTTAA	AGATTTTATG	ACCCGCAAGG	TAGTTTATAT	TAGTCCAGAT	5100
ATAACAGTAT	CTCATGCAGC	AGATTTGATG	AGAGAGCAAG	GTTTGCACCG	TCTGCCTGTT	5160
ATCGAAAATG	ATCAATTAGT	TGGTTTGGTG	ACTGAGGGAA	CCATTGCACA	AGCAAGTCCA	5220
TCTAAAGCAA	CAAGTCTTTC	TATCTATGAG	ATGAATTATC	TTCTGAATAA	GACAAAAGTA	5280
AAAGATGTCA	TGATTCGCGA	TGTTGTCACT	GTCTCAGGCT	ATGCTAGTCT	AGAAGATGCA	5340
ACTTATCTGA	TGTTGAAAAA	TAAGATTAGT	ATTCTCCCTG	TCGTAGATAA	CCATCAAGTA	5400
TACGGAGTTA	TTACTGACCG	TGACGTTTTC	CAAGCCTTTC	TTGAAATTGC	AGGTTATGGC	5460
GAAGAAGGGA	TTCGTGTACG	CTTTGTTACA	GAAGATGAAG	TTGGTGTTCT	TGGAAAAATT	5520
GTTTCTTTGA	TTGTAGAAGA	AAATTTGAAT	ATCTCCCATA	CAGTCAATAT	TCCGCGTAAG	5580
GATGGTAAGG	TGATTATCGA	AGTGCAAATC	GATGGATCAA	TTGATTTACC	AGCCTTGAAA	5640
GAAAAATTTG	AAGCAAATGG	TATTCAAGTG	GAAGAAATCG	CTCGCACTTC	AGCAAAAGTC	5 <b>7</b> 00
TTGTAAGAAG	GGAAGCCCAA	AGGCTTCTTT	TTTCATGAAA	AGGGGATTAG	AGCAAAAGAT	5760
GGAAAGAAAT	GATAAAATAT	GCTATAATGA	AATAATGTAA	AAAAGGAGTA	TTTATGGACA	5820
TTTCAGTAAT	TCGTCAGAAA	ATTGACGCAA	ATCGTGAAAA	ATTAGCTTCT	TTCAGGGGGT	5880
CTCTTTGACC	TCGAAGGGCT	AGAGGAAGAG	ATTGCCATCT	TGGAAAACAA	GATGACAGAA	5940
CCTGATTTTT	GGAACGATAA	TATTGCGGCC	CAAAAAACGT	CGCAAGAATT	AAATGAATTA	6000
AAAAACACTT	ACAATACCTT	CCATAAGATG	GAAGAGTTGC	AGGATGAAGT	CGAAATTTTA	6060
TTGGATTTTT	TGGCTGAAGA	CGAGTCAGTG	CATGATGAAC	TGGTAGCGCA	GTTAGCCGAA	6120
CTTGATAAGA	TAATGACCAG	CTACGAGATG	ACTCTACTCT	TGTCAGAACC	TTATGACCAC	6180
AACAATGCCA	TCTTGGAAAT	CCATCCAGGT	TCTGGTGGTA	CTGAGGCGCA	GGACTGGGGT	6240
GATATGTTGC	TTCGTATGTA	TACTCGTTAT	GGTAATGCTA	AAGGCTTTAA	AGTGGAAGTG	6300
TTGGATTACC	AAGCAGGTGA	TGAGGCTGGT	ATTAAGTCGG	TAACTTTATC	ATTTGAAGGG	6360
CCTAATGCCT	ATGGTCTCCT	CAAGTCAGAA	ATGGGTGTTC	ACCGCTTAGT	GCGAATCTCA	6420
CCATTTGACT	CTGCCAAACG	TCGCCATACC	TCTTTCACAT	CTGTAGAAGT	GATGCCAGAA	6480
TTGGATGATA	CTATTGAAGT	GGAAATCCGT	GAAGATGATA	TCAAGATGGA	TACCTTCCGT	6540

TCAGGTGGTG	CCGGTGGACA	AAACGTCAAT	750 AAGGTTTCAA	CAGGTGTACG	TTTAACCCAC	6600
ATTCCAACTG	GAATTGTTGT	CCAATCAACA	GTAGATCGTA	CCCAGTATGG	AAATAGAGAT	6660
CGTGCCATGA	AGATGTTGCA	GGCTAAGCTC	TATCAAATGG	AGCAAGATAA	GAAGGCTGCG	6720
GAGGTAGATT	CTCTCAAAGG	TGAGAAAAAG	GAGATCACTT	GGGGAAGCCA	AATCCGTTCT	6780
TATGTCTTCA	CGCCTTATAC	TATGGTAAAA	GATCACCGAA	CTAGCTTTGA	GGTTGCTCAG	6840
GTAGATAAGG	TTATGGATGG	GGACCTAGAT	GGTTTTATCG	ATGCTTATCT	CAAGTGGCGA	6900
ATTAGCTAAG	ATAGAAAGGA	ACTCACATGT	CAATTATTGA	AATGAGAGAT	GTCGTTAAAA	6960
AATACGACAA	CGGAACAACT	GCTCTACGCG	GTGTTTCGGT	TAGCGTTCAA	CCGGGGGAAT	7020
TTGCTTACAT	CGTAGGACCT	TCAGGAGCAG	GGAAGTCAAC	TTTTATTCGT	TCTCTGTATC	7080
GTGAAGTAAA	AATCGATAAA	GGAAGCCTAT	CAGTTGCTGG	TTTTAATCTG	GTTAAGATCA	7140
AAAAGAAAGA	TGTCCCGCTT	CTACGTCGTA	GTGTTGGGGT	TGTCTTCCAG	GATTATAAAT	7200
TGTTACCAAA	GAAAACTGTC	TATGAAAATA	TTGCTTACGC	TATGGAAGTA	ATCGGGGAAA	7260
ATCGCCGTAA	TATCAAAAGA	CGAGTGATGG	AAGTTTTGGA	CTTGGTTGGA	TTGAAGCATA	7320
AGGTTCGTTC	TTTCCCAAAT	GAACTCTCAG	GTGGGGAGCA	ACAGCGGATT	GCGATTGCGC	7380
GTGCAATTGT	AAATAATCCC	AAAGTATTGA	TAGCTGATGA	GCCAACAGGA	AATCTGGATC	7440
CGGATAATTC	ATGGGAAATT	ATGAATCTCT	TGGAACGGAT	ТААСУТАСАА	GGAACAACTA	7500
TTTTGATGGC	GACTCATAAT	AGCCAGATTG	TAAATACCTT	GCGCCACCGT	GTCATTGCCA	7560
TTGAAAATGG	CCGTGTCGTT	CGTGACGAAT	CAAAAGGAGA	GTATGGATAC	GATGATTAGT	7620
AGATTTTTC	GCCATTTATT	TGAAGCCTTA	AAAAGTTTGA	AACGAAATGG	TTGGATGACA	7680
GTAGCTGCTG	TCAGTTCAGT	CATGATTACT	TTGACCTTGG	TGGCAATATT	TGCATCTGTT	7740
ATTTTCAATA	CAGCGAAACT	AGCTACAGAT	ATTGAAAATA	ATGTCCGTGT	AGTAGTTTAT	7800
ATCCGAAAGG	ATGTGGAAGA	TAATAGTCAG	ACAATTGAAA	AAGAAGGTCA	AACTGTTACA	7860
AATAATGACT	ACCACAAGGT	ATATGATTCT	TTGAAGAACA	TGTCTACGGT	TAAAAGTGTT	7920
ACCTTTTCAA	GTAAAGAAGA	ACAATATGAA	AAATTAACCG	AGATAATGGG	AGATAACTGG	7980
AAAATCTTTG	AAGGAGATGC	CAATCCTCTC	TATGATGCCT	ATATTGTAGA	GGCAAACACT	8040
CCAAATGATG	ТАААААСТАТ	AGCCGAAGAT	GCTAAAAAA	TTGAAGGTGT	CTCTGAGGTT	8100
CAAGATGGCG	GTGCCAATAC	AGAAAGACTC	TTCAAGTTAG	CTTCATTTAT	CCGTGTTTGG	8160
GGACTAGGGA	TTGCTGCTTT	GTTAATTTTT	ATCGCAGTTT	TCTTGATTTC	AAATACCATT	8220
CGTATTACCA	TTATTTCCCG	CAGTCGCGAA	ATTCAAATCA	TGCGCTTGGT	CGGAGCTAAA	8280
AACAGTTATA	TCCGTGGACC	GTTCTTGTTA	GAAGGAGCCT	TTATCGGTTT	ATTGGGAGCT	8340

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ATCGCACCAT	CTGTTTTGGT	CTTTATTGTT	TATCAAATTG	TTTACCAATC	TGTCAACAAA	8400
TCGTTGGTAG	GGCAAAATCT	ATCCATGATT	AGTCCAGATT	TATTTAGTCC	GTTGATGATT	8460
GCCCTACTAT	TTGTGATTGG	GGTTTTCATT	GGTTCATTGG	GATCAGGAAT	ATCCATGCGC	8520
CGATTCTTGA	AGATTTAGGT	AAAATAGCTG	CTTTTATGAG	GAGATTGTAA	AATCTCCTTT	8580
TTTGCTACAA	GAGTTTTTGA	AAAGAGATGC	GCAGAAGAAA	AGAGCTTCCA	AAGAAGTCCC	8640
CCAGAGAAGA	CTTC					8654

## (2) INFORMATION FOR SEQ ID NO: 99:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19718 base pairs
  (B) TYPE: nucleic acid
  (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 99:

TGTCGCGTCA AAATCATTAC TATGGCTATG	G TATAGCCCTT	ACTATGACTT	GGCTAAACAC	60
GTTCGCTTTC AAATTTCTAG GCTCAGGCTC	G AAACAGTCTC	CCAGGCTGTT	CACTCCCGAA	120
TGCTAAAATC GTTCTTGATC GCTTTCACA	TGTACAACAT	CTTAGCCGTG	CTATGAGTCG	180
TGTGCATGTC CAAATCATGA ATCAGTTTC	A TCGAAAATCC	CATGAATACA	AGGCTATCAA	240
GCGCTACTGG AAACTCATTC AACAGGATAG	G CCGTAAACTG	AGTGATAAGC	GATTTTATCG	300
CCCTACTTTT CGCATGCACT TAACAAATA	A AGAAATTCTT	GACAAGATTT	TAAGCTATTC	360
AGAAGACTTG AAACACCACT ATCAGATCT	A TCAACTCTTA	CTTTTTCACT	TTCAGAACAA	420
AGACCCTGAG AAATTTTTCG GACTCATTGA	GGACAATCTG	AAGCAGGTTC	ATCCTCTTTT	480
TCAGACTGTC TTTAAAACCT TTCTCAAAGA	A TAAAGAAAAG	ATTATCAACG	CCCTTCAACT	540
ACACTATTCT AATGCCAAAC TGGAAGCGA	CAATAATCTC	АТСАААСТТА	TCAAGCGCAA	600
TGCCTTTGGT TTTCGAAACT TTGAAAACT	CAAAAAACGG	ATTTTTATCG	CTTTGAACAT	660
CAAAAAAGAA AGGACGAAAT TTGTCCTTTC	TCGAGCTTAG	CTGACTTCAA	CCCACTACAG	720
TTGACAAAGA GCCTAATTTC CATAAAAAT	GACATGGAAA	TTATAAAACC	ATTACTAGTT	780
TAGTCCTTTT TGATAACGTG CCAATTCGG	TTGGTTCGCC	CAAACATAGT	GACCTGGACG	840
GATTTCTACC ATAGATGGCT TATCAGTCTC	ATAGTCGTGT	TGACTTGGAT	CGTAAACCTT	900
CAAGACCTTC TTACGTTCCA AGATTGGAT	TGGGATTGGT	ACCGCTGAAA	GCAAGGCTTG	960
AGTATATGGG TGAATTGGAT TGTTAAACAA	TTCTTCTGTT	TCTGCAACCT	СТАСААТААС	1020

752 ACCCTTGTAA ATAACTGCGA TACGATCTGA AATAAAGCGA ACAACCGACA AGTCATGGGC 1080 GATGAAGAGA TAGGTCAGGC CGAGCTCTTT TTGGAATTTT TTGAGCAAGT TCAAGACTTG 1140 GGCACGTACA GAAACGTCCA AGGCTGAAAT TGGCTCATCT GCAATAACAA AGTCTGGTTG 1200 CATGACCAAG GCACGGCAA TACCGATACG TTGACGTTGA CCGCCTGAGA ATTCATGAGG 1260 GTAACGAGTC AAGTGCTCAG CAAGAAGACC TACTTCACGG ATAATATTTT GAACTTTCTC 1320 TTTACGTTCT TCTTCATCCT TAAATAAACG GTGATTGTAA AGACCTTCAG AAATAATATA 1380 ATCAACAGTC GCACGTTCAT TCAAACTTGC GGCAGGGTCT TGGAAAATCA TCTGGATTCG 1440 ACGAATCAAT TCCGCAGCTT GTTCACGCGA TTTCTTACCA TTAATCTTTT GACCATCAAA 1500 AATGATATCT CCATTACTTG TATCATTTAG ACCGATGATA GCACGACCAA TAGTTGTTTT 1560 CCCACTACCG GACTCACCTA CAAGCGAGAA AGTTTCTCCC TTGTTGATAA AGAAGTTAGC 1620 ATTTTAACC GCGACAACT TCTTACTTCC TTCACCGAAG GAAATTTCTA AATCTTTGAT 1680 TTCTACTAAT TTTTCAGACA TTTCCTTCCT CCTAGTCAGC CAGATGGGCA AATCCCATTT 1740 TTTCACGGAT CTTATCATGG AGATTTGCAA TCACAGCTGG TTTTTCTACT TTCGGAGCAT 1800 CCTCATGAAG AAGCCAAGTT TTAGCCCAAT GTGTCTCTGA TACTGAGAAT TGAGGAGCTT 1860 TTTGTTCGAA GTCAATCTGC ATTGCGTAGT CAGAACGCAA GGCAAAAGCA TCCCCTTTCA 1920 GGTCAGTATA AAGTGACGGA GGTGTTCCTG GGATTGAGTA AAGATCCCCT TTATCATCAG 1980 CAAGCTGAGG CAAGCTAGAC AAGAGACTCC ATGTATATGG ATGGCGAGGG TCATAGAAGA 2040 CTTCCTCAAC CGTTCCATAC TCAACGATTT CTCCTGCATA CATAACCGCT ACCTTATCCG 2100 CAATACTTGC CACCACCA AGGTCGTGGG TAATAAAGAT TGTTGTGAAA TGATACTCGT 2160 TTTGTAAAGA TTTTAGCAAA TCAATAATCT GAGCTTGAAT AGTTACATCC AAGGCAGTTG 2220 TTGGCTCATC ACAGATCAAG ACATCAGGTC GGCAGGCAAG GGCAATAGCA ATAACGATAC 2280 GTTGACGCAT TCCTCCAGAA TATTGGAATG GGTATTCATT AAAACGTCTA TCTGCGTCTG 2340 GAATGCCAAC CTTATTCATG TAGTCAATGG CCAATTCTTT CGCTTCTTTA GCTGTTTTTC 2400 CTTGGTGTTT TACAATAACT TCTGTAATCT GACTACCAAT TGTTTTAATG GGGTCCAAAC 2460 TAGTCATTGG GTCCTGGAAG ATAGTCGCAA TCTTAGCACC ACGAATTTGT TCCCAATCCT 2520 TGTGAGAAGA TAAAGCTGTC AAGTCCTGAC CACGGTAGTC AATACTACCT TGGGCAATAC 2580 GACCATTTTC TTCGAGCATA CCTGTGAAGG TCTTTGTCAA AACAGATTTA CCTGATCCTG 2640 ACTCACCTAC CAAGGCTAAT ACTTCTCCTT CGACTAGTTC AAGGGAAACG CCGCGAATGG 2700 CTGTCAATAC TTTGTCACGA ACGTCAAATT CCACGACAAT ATCGCGAGCA GTCAAAATTA 2760 CATTTTTTC TTTTGTCATT TCTACTCCTA TCTATGTGTA CGTGGATCAC TAGCATCCGC 2820

TAAGTTTTGA CCAACTACGA	AAAGGGACAA	GGATACCAAG	ACAAGGGTTG	TCAATGGAAT	2880
CCAGAACAAG TAAGCATTGG	TTGTTACGTT	TTGTGAATAA	TCCGAAATCA	AACGACCCAA	2940
ACTTGGCACT GTAATCGGTA	ATCCAAGACC	GAAGAAAGAC	AAGAAGGCTT	CGTATGAGAT	3000
AAAGCTTGGA AGCATTTGAG	TCATGGTTGT	CACAATAACA	GATACCAATT	GAGGCATGAT	3060
ATTTTTGGCA ACAATCTTCA	AGGTTGGTGT	TCCCAAAGTA	CGTGACGCCA	AGTTGTATTC	3120
CAAGTCACGA TAGCGCAAGA	TTTGCACACG	GATCATGAAG	GCAATACCAA	TCCATGTTGT	3180
TACGCTCATG GCAAAAATCA	GATTCCAGAA	TCCAGCTCCG	ATTGAGTAAG	TCAAGACAAT	3240
AACAATCAAA AGAGGTGGGA	TGTTTGAGAT	GACGTTGTAA	ACTTCCATCA	TGACACGGTC	3300
AACTGATTTT GAAATACCCC	AAATACCACC	GACAAAAACA	CCGATAACCA	AGTTAATCAC	3360
TGTCGCAATC ACAGAAATGA	GGATGGAGTT	ACGAGCTCCG	AACCAGACAC	CGTCAAAGAG	3420
CGATTTACCG TTACTGTCAG	TACCGAACCA	ATGCTCCGCA	TTTGGCTTGA	TATAACGAAC	3480
ACTAAAGTCG TTTACCTTGC	TGACATCATT	GAAATCAAAC	TTAGAAAACA	TTGGGTAGAT	3540
GAAACTTATC AAAATGATGG	CTACCAAGAT	TCCCAACATG	ACTACAGTTG	ATTTTTTCTT	3600
CATAAATTGT TTAAACACTG	ATTTCCAGTA	AGAATATGCT	GGCGCATCAA	TAGTTTCAGA	3660
GGCAAAATCG TCACGTTTTA	CAAACTGAAA	TTTTTCTTTA	TCGATTGTAG	ACATTATTTG	3720
CCTCCTTTCT CAGTCAATTT	AATACGTGGG	TCAATAATAG	TCATCCAAAT	ATCTCCCAAA	3780
AGACGTGAGA AGATAGAAAT	ACATGTAAAG	ATGAAGACAA	GACCAACGAC	CATAGAGTTA	3840
TTAGATGCTT TTACAGAGTC	AATCAACATT	TTACCCATAC	CTGGGAAGGC	GAAGACTGTT	3900
TCAGTAAGGG TTGCACCACC	GATAACCCCA	ATAATGGCAG	CAGGAATTCC	TGAAACCAGC	3960
GGAACCATGG CATTTTAAA	GATGTGTTTG	TTTGAAATTT	CTTTTTCAGA	CAAACCTTTT	4020
GCACGAGCGA AACGAACAAA	GTCTTGAGAT	TGCAAGTCAA	TCATGTAACG	ACGAATCCAA	4080
ATGGCTGTAC CAGGAGCACC	CAACAAACCA	AGGATGACTG	CTGGTAAAAC	GTAAGAACGC	4140
CAATCTCCAG CTCCCAAGAT	AGGGAATGAA	TCTGGAAGGG	CAATAGATGA	TCCAATCAAT	4200
CGAACGATGT AAACCAAGGC	AATCGTTGGA	AGAGCAAGCA	AGAAGGTCAA	AGCCCCTGTT	4260
GAGAGGCTAT CAATCCAAGT	GTTCTTGAAA	CGAGCCATGG	CTGAACCAAG	TGGCACGGCA	4320
AGAGCATAGG CAAGAACCAA	ACCAATCAAA	CCAGTAATAG	CAGAGCTGAC	AATCATAGAT	4380
GGATATTGGT AATTACTTTC	AGTCGCTGTA	TAAGGATCAT	CTTTCCCATA	GCTAGCTACT	4440
TCACGAGAGT CAGCCTGACT	AGGTGACTTG	TAGGTTCTTG	AGTAAATATT	TACAGAAGAC	4500
GTTTTCTTAC CTGTTGGGAA	CTGAACTTGG	GCAGTTTTGG	TTTGTCCTTG	ACCTTGAGTA	4560

754 ATAACCTGAA GAACTGGTGT ATTAGCATAG GTTGGGTAAG AGTCACCTAA ATTCAAGTTC 4620 ACAAAGTTTT GATGAACAAA TGGGAACTGA CTGTTAAAGT ACAAGAGATA TTTATGTTTA 4680 GTTCCTGAAC CGACCAATGA CCATCCGATA GCTGGATCAT TTTCAAAACG AAGGTAGCGT 4740 TTCAAGTCTG GATTTTCAGG GTCTTGGATT TTATTTGTAT GGTCAATGTC AATCAAGTTA 4800 GCATAGAAGT GAAAAACACG TTCAAAAATT GGAATTTCAC GAGTAGCATA GAATTGACCA 4860 CTTTCAGTAA ATTCTCCCAA AGTCCAACCA TGACCTAATT GATTGATGTA CTTTTCATAA 4920 ATAGCTTTAT TGGTCGCATT TGCTTCTACT GTTACAGAAG AATCCATGCT ACTTGCCTTT 4980 TCTTGCAACT CTTTAGTATC GTAATACTCA ATGTAGCCCA TACGCTCAAA CACAGTATTT 5040 TCATAGTTAT CACGTTTATC AGCCGTTGTC GCAATTTTAT TATAGTTAGG ATCCTGCTTG 5100 AAAATCAATT TTCGAGGAAC CAAGGTATAG ATAATCGTGT AGGTCAAAGT CGTTACTAAG 5160 AAAATCGAAA CCAATGACCG CAAAACACGC ATAAAAATAT ATTTTTTCAT ATTATTTCCT 5220 TTAAAAATCC CAAAAGAACC TTCTCCTCAT GGAGAGAAG TTCTATTAGA AATTATTTAC 5280 TTCACATGAC TTGCCAATTC TTTTTGAGCT TTCTCATTTG ATTCAGCTTT TTCTTTCAAC 5340 CATTTTCAC GAGCTTTTC ATACTCTTCC TTAGTCACCA CTTTATCTTG TGATTTCAAA 5400 TATTTGAAGT AAACATCTGA CCCCTTAGAG CCTGTTTGCG CAGAAGCTCC AGTAAATGGA 5460 ACAATTCGTG AAAGCACTGG TGCTGCACCA GAAGAAGCCA TAGCAGGAAT AAAGAGTGAA 5520 CTATCTGTCA ACCATGCTTG AGCCGCTGCA TATTTTTCAT AACGGACATT CAAGTCGCTT 5580 GTCTCTCTGG CAGCTTCATC AACTAATTTA TCGTATTCTT TCAAACCAAC TTGAACTACT 5640 GAAGGGCTAT TTGGATTATC AAATCCTAAA TATGTTTTTG TAGTTTCACT GCTAGTTGTT 5700 TTTAAAATAT CCAGGTAAGT AGATGGGTCT TGATAGTCTG GCCCCCATGA AACTCCTCCT 5760 GATACATCCC AATCCTCAGA TGAAGCATTG GCAGCATAGT AAGTAATATT AAGGAATTCA 5820 TCACTTGTCA TTTGTTGAAT ATCAACAACG ACATTTTCAA CACCAAGAAC TGTTTCTACA 5880 GATTGTTTAA AGGACTGAAT ACGAGATATG TAGTTTTTTG ATGCTTGGTC TACTGGAACG 5940 TCCAGATGAA TAGGAAACTG AACGCCGTCT GCTTCTAAAG CTTTCTTAGC TTTCGCAAAC 6000 TCTGCCTTGG CCTTGTCAGC ATTGAATAAA CCATCCTGCC CATCAGCTAA ATTCACACCT 6060 TTCCACTCAT CACCATAAGC AGGAAGTTGA GCAGCGACTA AATCACCAAA GGTCTTCTCA 6120 CCAGCTGAAA CAAAGTCTGG TTTTACAAAT AAATTACGAA CTGCTAAAGC TGCTCCATCT 6180 TTACCATTGA TTTGAGCTGA GTAAGCTGAG CGATCAAGAG CAAAATTCAA GGCTTGACGG 6240 AAATCTTTGT TAAGCAATGC CTTCTTAGTA GCTACTTTCT CTGAATCTGT AGTTTTAGAA 6300 GTATAGTTGT AACTTTGGCG ATCAATATTC ACACCCAGAC CAGCAATCCC AGAGCCTGAT 6360

TGTGTGTAAT	AGATATTGTC	CTTGTATTCT	TCTGCAACCT	TAGAATAGTT	GGAGCTGGTA	6420
GGGTAAAGAC	GGGCATAACT	ATAAGCTCCA	CTAGTGAAGT	TACGCTCTAG	CGACTCCTGA	6480
TCTGATCCAT	CATAGTAAGC	TAGATTGATA	GTATCTAGGT	GGACATTTTC	TTTATCCCAA	6540
TATTGCTCAT	TTTTTACAAA	CTCTACAGAA	GATTTTGCAG	TCAACCCTTT	CAACAAGAAT	6600
GGACCATTAT	AAAGCAAGGA	TGTCGGATCT	GTTGGTTTAG	CAAAATCGCT	TCCTTTTGAT	6660
GTTTCGAATT	CTTCATTCAG	AGGCCAGAAA	ATAGAATAGG	TCAACTTAGA	GTTCCAGAAC	6720
GGTTCAGGCT	GGTTCAAAGT	GTATTGTAAC	GTATAATCAT	CAACCGCCTT	GACACCAACT	6780
GTTGAAAAAT	CTGTTGAAGT	TCCTGATAGA	TAATCTGCCA	AGCCTTTAAC	CGAATTTTCA	6840
GCTAAATACA	TAGCTTCTGA	TTTTTTATCT	GCTGCGTGTT	TTAAACCGTT	CACGAAATCT	6900
TTAGCCGTCA	CCTCTGCATA	TTCTTCTCCA	TCAGAGGTAA	ACCATTTAAC	CCCTTTACGA	6960
ATCTTATAAG	TGTAGGTCAA	ACCATCCTTA	GAGACTTCCC	AATCCTCTGC	AACTGCAGGA	7020
GCAAGATTAC	CGTAATTATC	GTTAGTGAAT	AAACCATCAA	TCCCATTTGA	AGTCACTACT	7080
GTTGTACTAT	TTTTACTTGA	AATCAGGTAG	TCCAAGGTTT	CTGGGTCTGC	TGTATAAACA	7140
TAGCCATAAG	CTTTAGGGGC	TGATGAATCA	GATGATTTTG	AAGAACTGCA	TGCTGCAAGT	7200
ACACCTGCTG	СТААТААААС	AAGACCTGCT	GTAGCAAATA	CACGATTTTT	TTTCATTTTC	7260
TACTCCTCTG	TTTATGTGAA	TTATAGATTG	ACAACCATTA	TATCACATTA	TCCATTAAAA	7320
ATCAAACAAA	TTTTCAGAAT	ATTTAGGCTT	GTTGGCACAA	ATTTTTCATT	TTTTTTGAAT	7380
ATATGATTCA	AATTGTCGTT	CGAAGTGTCA	AAGACTACAG	TGAAAATAGG	AAATTTGACG	7440
CAGAAACTTT	GGAGTTTAGG	AAGACATACA	GTAAAATGAA	ATACGGACGG	AACAATGTGA	7500
TTTTGGAATT	CAAATTAAAT	TATAACAATA	TTGTAGAAGT	ATCATTCTAG	TATTCAAGAT	7560
TCAGTTTACT	ATGTCTTTTC	ACACCAACCT	TATCCCGAAT	TCAATTACTT	TTGTGATTTA	7620
CATATATAGA	TTAAGACTAT	CTTTTATACT	TTAAAATTTC	TCGCTACCTT	ATCCACTATA	7680
TGCTCCTCGC	TATCACGTTT	CTATTCATAG	CCTACGATTT	CACTATTGCT	TTCTCTGACA	7740
ATTCTTATTT	CCTGCGTCAG	ACTTAAAACG	ATCTATCCCC	AGACCATTTT	AATCCGCTAC	7800
CTCACGATAG	TCAGGCTTGG	GGAGCGCTAT	TGTATTCACC	GGTAGTGGAG	CCCTACAGAG	7860
GACTTACACC	TCAGATGCAC	GACATGCCCA	TCGTATAAAA	AATCTCCTAC	CCAAGGTAGA	7920
AGATTTCAAA	CTTATAAAAC	TTAATCCGTC	ATGTCCGATA	CCAACATTCG	ATGCTCCAAT	7980
GGAATACTGC	ACATAACTAG	CAAGAAAATA	AAGCCTGACT	GAATCCAGAA	GAGAGCCAAG	8040
TCAAAAATTC	CGTGCACAGC	AACCACTGTA	AGGAAAGATA	GATAAAGGCC	GATAATCGGA	8100

			756			
CGTTTCCCCG	ACTCCTGACT	CATATCCATC		CAGGAGCAAC	AGAAGACAAA	8160
ACTAATAAAA	TAGTCCCCAC	AATTCCGTAA	CTCAGAATCG	ТАТСААТАТА	AAGACTGTGG	8220
GCATGTTCAT	GATAAGGAGC	ATGTATCCGA	GGATAAGAGT	TCATATAGGT	CAATGGCCCT	8280
TCACCCCAAA	AAGGATTTTG	CTTAAACAAG	GCCATCCCAG	CATCCCAGAT	AGAAATGCGT	8340
TCTTCCATAG	AAGAGTCTAA	AGTACCCATT	CGAACTCCCA	AATCACTAGA	AAAGAGGAAA	8400
CTCAAACCAA	TCGCGAAGAC	CCCAATACTA	AGCCAAAAGG	CCTTCCAGTT	TTTAATAGTC	8460
GTAAAGAGAT	AGATAATTGC	TCCAGCGATA	ATAGCAGGAA	AGGCAGTTCG	ATTTTGAGTA	8520
AAGTTCAAAC	CAAAGAGATT	AACAAAGCCT	GCAATCACAC	AGAATACTTT	CAACCAATTC	8580
AACTTGGTCG	TTGTAAACAG	ATAGAAAGCA	ATCATAATAC	AGAAACAACA	AATAATTCCA	8640
TAATAATTAG	GATTAAAGAA	GGTCACTTCT	GCCCGGTTCT	GATGCCACAC	CTGCATATTG	8700
GGTGAAAGAA	AAGCATAGTT	AAATTTCTTC	ACAATTTGGA	AATGTTCTAA	ACTGGCAAAA	8760
GCAGCTGACA	AGACACTACC	AAACAAGACA	AACTGCAAAA	TCAATCGAAA	GAATTTATGG	8820
GATAAAATCG	ACTGATAGTG	CAAAAAGAAA	ATAGTAAATA	GAAACATTCC	TACTGAAGCC	8880
ACAAGACCCA	TCCAATTTTG	TGCAAGAATG	GATATAACAG	TACTATAGCT	AAGAAAAGA	8940
AGCAGCATCG	GATGCTCCCC	CATTTTCTGA	AGAATACTTT	TCATGTCTCC	TGTAAAAATC	9000
AAACTGATAA	TATATAAACA	GAGTACAACT	ACAAAAAGAT	AAAAGGGTAA	AAAGATACTC	9060
AGGATAATTC	ССААТААААТ	CAGCTCTTTA	CTAGACAACC	CCTTCAGCTT	TTCAATAAAG	9120
CCTATTGATT	TCAAAATGAA	TCCTTTCTCT	CCAAATCAGC	TGATTCAGAT	AATAGTAAGC	9180
ТАТССТАТАТ	TGTACCACTT	TTTTAGCAAT	TTGAAAACAA	AGGAAACGTT	TTCCAAAATA	9240
AAAACCCTAT	TTTATCCACC	ATATCAAGGC	TTCAAAATGA	TACTTCAACT	CCATTCTCAA	9300
TTACCCGATA	AGTCTGATTT	TGCAAATCAA	TTTCTACTAC	TGCTGTTACG	GACTTATCTT	9360
TATTTTGACG	TTTGATTACA	ATGCTGTGAG	CTGTTGGTGT	CTCTATCTCA	GTAGTCCCTT	9420
CTAGATCAAA	GGCTTCTGAA	CGGTTACGGA	AAGAAAATAG	ATTGAGAAGG	GCCTTCACAA	9480
CAGGTCGTTG	CACTTCTTTT	GCTATTTCCT	CGTTGCTATA	GTAATGACGA	TTAATATTTC	9540
GACCTTCTTT	AGTTTCTTCT	AATAATTTCA	AGTCATTCTT	GCCTGCTAAT	AGACCCACAT	9600
AGTAAATCTG	AGGAATACCT	GGGGCAAAAG	CTTGAATTAG	ACGAGCGAGA	AAATACTTGA	9660
CATCATCATC	TCCAAGCGCT	GAATAGTAGG	TTGAATTGAT	TTGGTAGATA	TCTAAGTTGT	9720
TATACTCGGC	ACTAGAGTAC	TTACGTTTGA	CATTGGCTCC	AACCTTATAG	AGTTCATTTG	9780
AAGCATAGTC	AATCTCCTCA	TCGGTCAGGA	TATCCTTGAC	ATCTACTACT	CCAATCCCAT	9840
CATGGGTATC	TAGCGTCGTA	AATTGCTTCA	TCGGGCTCAT	CTTTAACCAC	TTAGCCAAAC	9900

GCTCTGTTCT	GGAACTGTAA	AGAGTATAAA	GTGTCACCAT	TGGAAGAGCA	АААТСАТААА	9960
CATAGTAATC	ATGGTCTGCT	ATTTTAAACT	GAATCGAATA	GTGTTCATGA	ATCTCAGGTA	10020
AAAGCTCTGT	CCCATACTCA	GCAGCGATAT	CTCGAACTTT	GTCCAATAAA	тсссааатат	10080
CTGGTTCCAC	AAAGAAATCA	TTAGTATCCA	ATTTCTTCAC	TGCATAAGCA	AAGGCATCTA	10140
GACGAATCAA	ATCACACCCA	TTACTTGCCA	AGTGCTGAAT	GGTCTTACGG	АТАААТТССА	10200
TAGTTACTTC	TTTGGTCACA	TCAAGATCAA	TCTGCTCCTC	ACCAAAGGTA	ТТССАСАААТ	10260
GTTCCACTGA	ACCATCTTCA	AACACAATCT	CTTGCTTTGG	TGCACGATCC	TTACGCTTGT	10320
AAATTAAATC	TACATCAGAC	TGTGTCGGAC	GGTTTTCTGG	CCAAAACTTA	TCCCAGTTTA	10380
AAAAGAGAGC	TTTAAATTCA	CTGGCTTCAT	GTTTTTCTTG	ATAGTCCTTA	TAATACTTGG	10440
ATTGACGAGA	AATATGATTA	АТСАТААААТ	CAAACATAAG	ATAATATTTC	TCACCTAAAC	10500
GCTTCACATC	CTCCCAATCA	CCAAAAGCTG	AGTCCACTTC	GTCGTAGTCA	ACTGGCGCAA	10560
ATCCACGATC	AACTGTTGAT	GGGAAAAATG	GTAAAAGGTG	AACTCCTCCA	ATAGCATCTC	10620
CAAAATGCTC	TTCCAAATTA	TCATATAAGT	CTTTAAGATT	ATTTCCAAGG	CTATCAGAAT	10680
AGGTAATCAA	CATGGTTTTA	TTTTGAATTG	GCATCATTAC	TCTCCTTTTT	CTAATTGAAG	10740
CCAAGTCTCA	TATGATCTGG	CTTCATAAAT	AAAATTCATT	TTAAATCTCT	ATTTATCATC	10800
AAACTCGTAC	TAATATAGAC	TGTGATAAAC	AAAGTACTAC	TTTCTTGTTT	TCTGCATAGA	10860
ATTATCAACA	AGCTAAACTC	TTCCTCTGTG	TCAAAGACTA	TAGATTCCAT	GAGCTCTTCT	10920
TATACTCTTC	GAAAATCTCT	TCAAACCACG	TCAGCTTCAC	CTTGCCGTAG	GTATGGTTAC	10980
TGACTTCGTC	AGTTTCATCC	ACAACCTCAA	AACAGTGTTT	TGAGCAACCT	GCGGCTAGCT	11040
TCCTAGTTTG	CTCTTTGATT	TTCATTGAGT	ATTACTTCAC	TGCCCCGTTG	CTCATTCCTG	11100
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AAGAGGCAAA	GCTTGGTCCG	TAGTCGTTGA	AATATTGGCC	TGCGTAGTTG	TATTGGAACA	11220
AAGGCAGAGT	CCACATTTTG	GAATCCCGGT	TCAAGACAAG	GAGTGGCAAC	ATGAAGTCAT	11280
TCCAGAACCA	AAGGGCATTG	ATGATCATGG	TTGTCGCATG	CATCGGTTTC	ATCATTGGGA	11340
AGATGATGCG	GAAATAGGTT	GTAAATTGAT	TAGCCCCATC	GATCTCTGCT	GCTTCATCCA	11400
GACTTTCTGG	AATCGAGATT	TTGATATAGC	CAACATAGAG	AAAGAGGGTC	TGTGGAATCG	11460
CATAGGTCAA	GTAGAGCAAG	АТСАААССАА	AGGTATTAGC	CAAACCGAGT	TTACTCATCA	11520
TAACCGTAAT	CGGAATCATG	ATGACTTGGA	AAGGTACGAA	GATTCCGAGG	ATTAAGAGGG	11580
TATACATGAT	GGTAAAGGCT	TTTCTTTTAC	TCATATTGCG	AGCGATGGAG	TAGGCTGCCA	11640

			758			
TAGGGATAAA	GATCATTACT	GCAAGTAAAG	ACAAGACAGT	GATGACGACA	GAGTTCCAAT	11700
AATAGCCTCC	AATCCCATCA	GCTAAGAGAC	GGCTAAAGTT	GTCCCATGTG	AAGTTGGTTG	11760
GAAAGCCAAA	GAAATTATCT	ACAATATCCT	TAGTGGGTTT	GAAGGAACTA	AAGAGGGTAG	11820
CAAGGAGCGG	CACTAAAATC	AGAACCGATC	CTAGAATCAA	TAGAATGTAT	TTGCCAATCA	11880
GGGCTTTTCT	TTCATCTTGT	TTCATCATGC	TTCTCCTCTT	AAATTTCAAA	TTTCTTAGAT	11940
ACTCTCAATT	GGATGATCGA	AATCACTACA	ATTAAGAAGA	ACAAGATTAC	GGCAATGGCA	12000
TTGGCATAAC	CGAATTGGTT	GTTTTTAAAG	GCATAGTTAT	AAACCAAGAG	CCCAAGTGAG	12060
GTTGTGGCAT	TGTTTGGACC	ACCACCGGTC	ATGGCAAAGA	CTTGGTCAAA	GGCAGTCAGC	12120
CCACCTTTTA	GGGCTAGGAT	AAAGACCATA	GAGACACTTG	GTAGCAAGTA	AGGCAATTCA	12180
ATGTTCCAGA	AAACTTGCTT	GCTAGTCGCA	CCATCAATCC	TTGCTGCCTC	TGTAATCTCA	12240
GTTGGAATAG	ATTGCAAACC	AGCTAGGAAG	ATGATGATGG	GCATAGCCAC	CCCTTGCCAA	12300
AGAAGGACAA	AGACAGCCGC	AAAGATTGCT	CCCCACTTAG	TCCCTAAAAG	ACTGGTTTGG	12360
AAAAATTCAA	TATGAAGGC	ATTTCCAATC	GCTGGAAGAC	CGTAGTTGAA	GACTTGCTTG	12420
AAGATCAAAG	CCACTGTCAA	ACCAGATAAA	ACAGCTGGGA	AGAAGAACCA	AGCACGGAAG	12480
AAGGTTTGGC	CTTTGATTTT	AGAATTCAAG	ACACGCGCAA	TGAAGATCCC	GAGTGCAATC	12540
TCACCAACCA	CCATGGCAAT	CGCAATGATT	GCGGTAAAGC	CAATCGCATT	CATGAATTTT	12600
GGATCCATGA	AGAGGAGCTT	AAAGTTGTTT	AAGCCAACAA	ATTTGTAGTT	ATAAGTCAAT	12660
CCTGTCCAGT	TGGTAAAACT	GTAAAAGGCT	CCTTGAAACA	TCGGCACATA	GAAGAAAATT	12720
GCTTGTAACA	AGAGGGGGAT	GACCACAAAA	GCCCATGCCC	AATATTTTTG	TAATACTTTT	12780
TTCATAGTCT	CTCTACTCCT	AATCCACATC	CGCTTTCATC	GGGTTAAAGA	AGGCATTCAA	12840
ATCATTGACC	ATGCCTTGTT	TATCACCGGT	CAAGACATAG	TTCATGGTCA	AGGTATGGAA	12900
GTCTGCTTCA	CTGGTCCAGT	ATTGTTGCAA	CCAGACCAAG	TGACGATCCG	TAAAGGCATA	12960
TTCGGTCATA	CCAGCAAGCG	GTGAATCTTC	TCCTGCTTGT	TTGACCCCTT	CGATCGCTGT	13020
TGGAGATCCG	TCCACATCGT	AGTATTTTTG	CATGACTTCT	GGACGGGTCA	TATATTCCAC	13080
AAAGGCATTG	GCTTCTTTTG	GATGTTTGGT	GGTGGCTGAG	ATAGACCATG	CCAAGTCTCC	13140
CGCACCAACG	GTTAAGCTTT	GTCCTTTTTC	TTTTCCTGGA	ATCATGAAGG	TCCCAATCTT	13200
AAAGTTCGGT	TTTTGTTCAT	TAATCGCTGT	GATCGCCCAA	GACCCATTTG	GTGTCATGAG	13260
GACATCCCCA	CGTGCGAAGG	CTCCGATAAC	ATCGGTATAG	CCAGCACCTT	CCCAGTTCTT	13320
TTGCTTAGAT	CCATTGATGC	GAAGGATGTC	CATGACCTTG	ATATCATCTT	TCATAATCGG	13380
ATCCGACAAT	TTAATGGCAT	TTGGTTGAGA	ATAACGAAGG	TATTGATTTG	CTTCTTTTCC	13440

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TTCATCCCAG	GTTTCAGGAA	CCTTCAAGCC	CAGTTCTTCG	AATTTATCTT	TGTTGTAGTA	13620
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ACCTGCTTTT	GCCCATTCTT	GCAGTTCGAT	GGACTGTGGG	TAAATATTGA	CCACATCAGG	13800
CACATCTCCT	GCGAGAACGC	GTGTCTTCAA	TACTTCACCA	GCATTTGGTA	CATTGACGAC	13860
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CACCCCAAAA	GTTAGACAGA	ATAAATCTAA	CTTTTGGGGT	CAGTACATAT	CATAGTTTTC	14160
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ACATTAGTTC	TGCACCTGAG	TAAACTTCGC	CATTTTCCTG	TAATTTATAT	AGTCCCTCTT	14280
CATCCAAATC	TTTTAATTTT	AAAGTTGTTT	CCATGGTCTC	TACAACAGAT	AAAACGCGAA	14340
CGTAGGTTAC	AATCGTTTGA	TTTCCGTAAT	TAAATTGTAC	AGCTGCTTCA	TTGGATACAG	14400
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GTTCATAGCC	CAAATTTCCC	ATCATTGCTA	CAAGGCCACG	TGTTTCTAAT	GGTGTCATTC	14580
GTCCCATCTG	ATGATTCGGT	ACTGCTGACA	CATGAGCCCC	CATAGAAATG	GTTGGATAGA	14640
GATAGGATGA	ACCGTATTGA	ATTGGTAAAC	GTGCAATGGC	ATCAGTATTA	TCACTAGCCC	14700
AGACTTGTGG	GAAATAGCGC	ATCATACCAA	GATCATTTCG	TCCACCACCA	CCAGAGCAGG	14760
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GCATGTACTG	ATGAGATTGC	ATCTGTGTCT	CTAGATAAGT	TAATCCATTC	CCTAGCTTAG	14880
TGATATTGCG	GTTCATATCC	CATTTAATGT	AATCAATATC	ATGATAAAAT	AGGAGTTGAT	14940
CTAAGACACT	TTTCAAGTAT	TCTACTACCT	GAGGATTGGC	AAGATTAAGT	ACTAATTGAT	15000
TCCGAGAATA	AGTATGCTCA	TAGCCAGGAA	CCTGAATAGC	CCAGTCAGGA	TGTTGACGAT	15060
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TTTCATGGAT	AGCTGAAATC	AGACTTTCTA	GACTTCCACC	CAGTTTTTCC	TCATTAACAA	15180

			760			
CCCAATCACC	TAAAGCACGA	TTATCATCAA		AAACCAACCA	TCATCTAATA	15240
CAAAAAGTTC	AATGCCAACT	TTCTTAGCTT	CATCTGCTAA	CTCTAACAGT	TTTTCTCTCT	15300
GAAAGTCAAA	GTAAGTAGCT	TCCCAGTTAT	TGATTAGAAT	TGGACGTTCT	TTTTTAGAAA	15360
ATTCACTTAG	CATAATGTGC	TTCAGTACAA	AATTCTGACT	TTCATGACTA	ATACCAGTTA	15420
ATCCCTGATC	TGAATGAGTC	ACTAAAGCTA	CCGGTGTTTC	AAAGTATTCC	TCAGGAGCTA	15480
ACTTCCAAGA	AAAGTTTTCT	GGATTAATGC	CAATAGCCAC	CCGAACTTCA	TTCAATTGAT	15540
TTTTTTGAAC	AAAAGCTTCA	AAGTTGCCAC	TATACATTAG	TTGAATAGCA	AACACATTCC	15600
CAGCATCCTC	TGTGACTCCT	TGTTCGCATA	GTAGAAGAGC	TGGTGTTTGA	GCATGACCAG	15660
AAGCACCTCG	GTTTGAACTA	ATCGAAAAGA	TTCCTTGTTC	TACCTGTTGA	CGTCTAACAG	15720
TCTTTTCACG	AGCATAAGCA	CCCTGCAGAG	TTACTATTTC	GTAATCTGCA	GCTGGAAAAT	15780
CAGCCATAAA	AGAAAAATCT	TTATGGATGA	CAACTTCCTG	ATTACTATTA	TTATCTAATT	15840
TACTGTAGCT	AGCAATAGTC	GCATCATTAT	TAAAAGTAGT	ATAATACAAA	GTCAGACTAA	15900
GTTGAGCCTT	AGAATCTTCT	AACATTAAGA	CAAGAGTCTC	TGTATCGTCC	ATGCTATGTG	15960
GAGAAGGTAA	GCCCTGTGGA	CCATTCTGAC	CTTTTAAAAT	CTTTGCTTCT	ACAAATCGAA	16020
AGTCTGTTAC	TTCAGTTACA	CTATGCTGAA	CCTGTATGGT	TGGTTTCCTA	AAATCTCCTA	16080
AGCCATGTTG	ТССАААААТС	TGTCGCTGAG	TATCTAAACT	AAAGGTTCGA	TTAGTAGCCG	16140
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TAATAGTCTT	TCCTAAATGT	TTCAAAAGTA	AGTAGCCATT	TCGATTTTCA	ATAATCAAAC	16260
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CCTCATCACT	TTATTGATTA	TATTTTATCA	CCTGAAATCG	CTTTCCAAAA	TAGAAAAATG	16380
TCTCAAGAAT	ATGGTAAAAT	GTTAGGTAGG	AGGTAGCACA	TGTTAGTTTT	TTCAGAATAC	16440
CAGACTGGAA	CAATCGACCT	TGCCCTAAGC	TTTTATGGAT	ATGAGGAATG	CACACCTAAT	16500
TACTCTTTTG	GTCCAGCCAT	TCGTGATACA	TACGTTCTAC	ATTACATTAC	TAAAGGACAA	16560
GGAAAATTTC	ATTACAAGGG	TAAAATTGTT	GATTTAAAAG	AAGGAGATTT	CTTTCTATTA	16620
AAACCAGAGG	AACTAACCTT	TTATCAAGCA	GATAGTAAAG	AACCTTGGGC	CTACTACTGG	16680
TTAGGAATCA	CTGGAGGGAA	AGCCCCTGAT	TATTTTGCTC	TTTCCCAAAT	TTCTGATCAA	16740
TCCTATCTCA	TCCAATCTGA	AACTTGTCAT	ACCCAGACTA	CTGCAAAACT	CATCTCAGAC	16800
ATTGTCCGCT	TCGCTCAGAT	TACAAAATCA	AGTGAATTAG	CTCAACTCCA	TATCATGGGA	16860
CAACTTCATG	AACTGATGTT	TCATCTGGGA	ACTATTGCTC	CCAATCAGAA	AAAAAAGAAT	16920
ATTTCATCAA	CCCACCAACT	CTATCTTGAA	TGCAAACGAT	TAATTGATAG	CCACTATCCT	16980

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AGCGTATTCA	AAGAATTTAA	TACCTTATCA	CCCAAAGAAT	ACCTACTCTA	CGTTCGAATG	17100
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CCAAGTCATA	CAAGAAAAGA	ATACTCTCAA	TACCAACTAG	TAAGAAAGGC	AACATTATGA	17280
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ACCTTATTCT	TCCAGAGATT	CTAGAAGAAA	ATCTTCCAAT	TAAAGTCAGC	TTTAAACCCG	17520
AAACAAAATC	AACACAACTA	GATGCAAAAG	AAGCAATTGA	TTTAGGCCAT	GAAGCAAATA	17580
CCCTCTATCT	AGCTTCCTAT	CAAACAGCAG	GCCGAGGCCG	TTTTCAACGT	TCCTTCTACT	17640
CACCACAAGG	TGGTATTTAT	ATGACACTCC	ATCTTAAACC	AAATCTCCCC	TATGACAAAT	17700
TACCATCCTA	CACACTACTT	GTAGCTGGAG	CTGTCTACAA	AGCCATTAAG	AACCTAACTT	17760
TAATAGATGT	CGACATAAAA	TGGGTCAATG	ATATCTATCT	AAACAATCAT	AAAATTGGAG	17820
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GAGTAGGTAT	CAATTTCACT	ATTAAAGACT	TCCCTCAGGA	ATTAAAAGAA	AAAGCTGCCA	17940
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TAAAAATAAA	AAAGAGAGTT	ACAGACTCTC	ATTAAAACGG	AGAATAAGGG	ATTCGAACCC	18360
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TCTCCAATTA	ATGGGCACGA	GTGGACTCGA	ACCACCGACC	TCACGCTTAT	CAGGCGTGCG	18480
CTCTAACCAC	CTGAGCTACG	CGCCCAAGTT	AAAAAACTTG	GTAATTTGAA	CAAAGTTCAA	18540
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ACTACACCCG	CATAAATACT	ATCAATAAAA	TGGCGCGAGA	CGGAATCGAA	CCGCCGACAC	18660
ATGGAGCTTC	AATCCATTGC	TCTACCAACT	GAGCTACCGA	GCCTTATTGC	GGGAGCAGGA	18720

762 TTTGAACCTA CGACCTTCGG GTTATGAGCC CGACGAGCTA CCGAGCTGCT CCATCCCGCG 18780 TTAATAATAT AAAAGGAGGA TGTGGGATTC GAACCCACGC ACGCTTTTAC ACGCCTGACG 18840 GTTTTCAAGA CCGTTCCCTT CAGCCGGACT TGGGTAATCC TCCAATATTC AAATGGACCT 18900 TGTAGGACTT GAACCTACGA CCACTCGGTT ATGAGCCGAG AGCTCTAACC AGCTGAGCTA 18960 AAGGTCCGAC AAGATCATTA TAGCGGCGAA GGGGATCGAA CCCCCGACCT CCCGGGTATG 19020 AACCGGACGC TCTAGCCAGC TGAGCTACAC CGCCATGAAT CGGGAAGACA GGATTCGAAC 19080 CTGCGACACC TTGGTCCCAA ACCAAGTACT CTACCAAGCT GAGCTACTTC CCGAGTTAAA 19140 TAGAAAAATG CACCCTAGAG GAGTCGAACC TCTAACCGCC TGATTCGTAG TCAGGTACTC 19200 TATCCAGTTG AGCTAAGGGT GCTCCATATT ATGCCGAGGA CCGGAATCGA ACCGGTACGA 19260 TCGTTACCAA TCGCAGGATT TTAAGTCCTG TGCGTCTGCC AGTTCCGCCA CCCCGGCCTC 19320 TCTAAGCGAA CGACGGGATT CGAACCCGCG ACCCCCACCT TGGCAAGGTG GTGTTCTACC 19380 ACTGAACTAC GTTCGCACTG TTTTCTTCTA TCTAAAAATG CCGGCTACAT GACTTGAACA 19440 CGCGACCCTC TGATTACAAA TCAGATGCTC TACCAACTGA GCTAAGCCGG CTCATTTGTT 19500 ATATCTTAAT GCGGGTTAAG GGACTTGAAC CCCCACGCCG TTAAGCGCCA GATCCTAAAT 19560 CTGGTGCGTC TGCCAATTCC GCCAAACCCG CATATATGAC CCGTACTGGG CTCGAACCAG 19620 TGACCCATTG ATTAAAAGTC AATTGCTCTA CCAACTGAGC TAACGAGTCT AAAATAACTT 19680 GCGTTACCTT AAACGGTCCG ACGGAATCGA CCCGGTAC 19718

#### (2) INFORMATION FOR SEO ID NO: 100:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 4117 base pairs (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double

  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 100:

CCGTGGAAAA	GTCTGGATAG	TGAATGGTCT	TCACACAATG	ACCTGAAAGA	AGCCTGAGAA	60
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AGAGGGAATA	TTGAGGAGAA	AAATCCTGAG	CCTACCAGTT	GGAGTTGGAA	AGAGCTGACT	180
GTTAGATCAT	GGTTTATTAT	CCACAACCTG	TGGATAACTT	TGTGAATAAG	AGAAGTTGCT	240
AAAGAAGGAG	ATATATAACG	ATGAAGAAAA	TCAAACCGCA	TGGACCGTTA	CCAAGTCAGA	300
CTCAGCTAGC	TTATCTGGGA	GATGAACTAG	CAGCTTTTAT	CCACTTCGGT	CCTAATACCT	360
TTTATGACCA	AGAATGGGGG	ACTGGACAGG	AGGATCCTGA	GCGCTTTAAC	CCGAGTCAGT	420

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TGGTCAAGCA	CCACGATGGC	TTTGTCCTTT	ATCCGACAGC	TCACACAGAT	TATTCGGTTA	540
AGGTCAGTCC	TTGGAGGAGA	GGAAAGGGCG	ACTTGCTCCT	TGAAGTATCC	CAAGCTGCCA	600
CAGAGTTTGA	TATGGATATG	GGGGTCTACC	TGTCACCGTG	GGATGCCCAT	AGTCCCCTCT	660
ATCATGTGGA	CCGAGAAGCG	GACTACAATG	CCTATTATCT	GGCTCAGTTG	AAGGAAATCT	720
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ACCTGCAGGG	CGATTGCTTG	ATTTTTTCAA	CAGAAGGCAC	CAGTATCCGC	TGGATTGGCA	900
ATGAACGAGG	GTATGCAGGT	GATCCACTGT	GGCAAAAGGT	GAATCCTGAT	AAACTAGGAA	960
CAGAAGCAGA	GCTGAACTAT	CTTCAGCACG	GGGATCCCTC	GGGCACGATT	TTTTCAATCG	1020
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GCTCTTGGGC	AAGCGATGCA	GACTTGCCCA	TCCAGTTAGA	ACTCGACTTA	GGTTCTCCTA	1380
AAACTTTTGA	TGTAATTGAG	TTAAGAGAAG	ATTTGAAGCT	AGGGCAACGA	ATCGCTGCTT	1440
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GTTACAAACG	TCTCTTACGA	GGAGCAGTTG	TTGAGGCACA	GAAGATACGT	GTAGTCATTA	1560
CAGAATCACA	GGCTTTGCCT	TTGTTGACCA	AGATTTCCCT	ТТАТААААСТ	CCTGGATTAT	1620
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TGTTGAATAG	TTGATACGAG	TGTTTTGTCC	AGTCGGCATT	CTTTGACAAA	GTTAAAATGG	2100
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AGATGGTCAA	AGAGAGGGAT	TCCGAGGTCA	764 TAGCTTGGTT	TTCCTGGACA	GGTTGGATAA	2220
AATCCGAGAG	CTGACCAGAT	GTACCAAGCA	GAGAGACTAC	CATTGTCTTC	ATCTCCAGGA	2280
TAGGCTTCCC	AACTTGGGTG	AAAAGCTTTC	TGACGGAGCG	TCTTGATAAG	AAGGGCAGTG	2340
TAGTCAGGGT	AATCGCTGTA	ACGGAAGAGA	TAAGGAATGT	GGAAACTAGG	CTGGTTGGAA	2400
ATGGCTATTT	GTCCAAAAGG	AGCAGTAGCC	ATCTCGCTCA	TTTCGTGAAT	TTCGTAACCA	2460
TAGCCTGTTG	TTTCAAAGAG	GGGAGCATCT	TGACAGGCTT	TCAAAAGATA	GTTGCTAAAG	2520
GTTTCTTTTC	CACCCATCAG	TTGGATTAAG	CCAGGGATGT	CGTGGAGAAC	GCCTAAAGTA	2580
GCTTGAATGG	CAGAGCATTC	AGCGTAGTCT	CGCCCCAAC	TATAAGGAGA	GAAGTCAGGG	2640
TGAAAGTTTC	CTTGATTGTC	TCGTGCTCGC	ATGTAACCTG	TCTCAGCGTC	AAATAGCTGG	2700
CGGTAATTTT	GTGAAGCAGC	CTTGTAGGTT	TCAGCGATTT	CTATGTTCTC	TAGTTTTTTG	2760
GCACAGCTGG	CGATACAAAA	GTCACTATAG	GCATAGTCTA	GAGTATGGCT	AACACTTTCG	2820
TGGTGGTCGG	TAGAGAGGTA	ACCTAGTTCT	TGGTATTGGG	CTAGTCCGTG	GCGGCCATTG	2880
ATGCCGAGAG	GGTCGGCTTT	GCTGGCTGTT	TCGAGCATGG	CTTGGAAGAG	TTCTCCTTCT	2940
AGGTCGGGGG	TCATGTCCTT	GCAGGCGCTA	TCTGCGATAA	TACCGTCTAA	AAGTGTACCT	3000
GGCATCATAC	CCCGTTCATC	TGGAGCCAGC	CATTTTGGAA	GGAAACCAGT	ATCGCGGTAG	3060
CTATTGAGGA	AACCTTCTAA	AAAGCGTTGA	TAGTGCTCCG	GTATGATAAG	GGCAAAGAGG	3120
GGGAAGGTGG	TGCGGAAGGT	ATCCCAGAAA	CCATTGTTGC	TAAAGAGGAC	ACCAGGCTTG	3180
ACAGTACCAG	TAGCCAGATC	CATGTGGATG	GCTTGCCCTG	ATTCATTAAT	СТСАТААААА	3240
GTCTGTGGGA	AGAGGAAGAG	TCTGTAGAGG	CAGTGGTCAA	AGAAGGTTCG	GTCAGCCTCT	3300
CCTGTCTCTA	TAATGTCAAA	ACGATGGAGG	AGATTTTCCC	AATCCACTTG	GGCACTTGAT	3360
TTACAGCTAT	CAAAATCTTC	TTGAGGTAGA	TTGATTAGAG	CTTGAGAAGG	AGAGATGAAA	3420
GAAGTGGCTA	GTTGCATCTC	GGTTTGACTA	CTTGCTAAGT	CAATTCGCCA	GTCTCCAGCT	3480
TCTTGGCTGA	TAGCAAGAAT	ATCCGTGTTC	ATTTGCAGGG	CAGTGAACAT	CGTTAGCGAA	3540
TTTTTGTTAG	TTTCAGTTTT	ACCTTCTTGT	CGCAGGGCAA	GAGTCCGCTT	ATCTACTTGC	3600
TCTACTGTCA	GTTCATCTGC	TGCGTGAAGA	TAGAGGGAGA	GGGCTTTGCC	TTGCTTTTGA	3660
TTCAAACGAA	TAGAAGCACC	ATAGCAAGTC	GGTGTGAGCT	GGGTTTCAAT	CTGATAACGC	3720
AGAGAAAAGA	GCTTCAAATA	GTGAGGCTGG	AAGCAAGCTT	TATCTATATC	ATAAGAAGAC	3780
TGGCGGTGAA	AGAGGCTGTC	TCCCCCCAGT	TGACTGGTGA	CAGGTGTCAG	AAGGAGCCAA	3840
GAGTAGTCCC	CAATCCAAGG	ACTGGGCTGG	TGAGTTAATC	GAATCCCCTG	AAAGATAGGC	3900
AGATGTGGAT	CAAAAAACCA	AGATCCATCC	TGGTCACTGG	TCTGGGGCAC	AAAGTAATTC	3960

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ATCCCAAAAG GCAC	GCCTGT GTATGGCAGG	GTATTTCCCC	GAGAAAAGGC	ATGCTTGTTG	4020
GTAGTTCCAA AACGG	GGTATC GATGGTATCA	AGTAGTGGTT	TCATAGTCTT	TCCTTTAGCT	4080
GTTTTTCTAC ATTA	TATCAG TAATAGAGGG	CCTTTAG			4117
(2) INFORMATION	FOR SEQ ID NO: 1	01:			

# (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 2727 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 101:

60	GAGTTTTTAC	TTATTTATGT	CATATGTTCT	TCTAAGTAGT	TATTATTCAC	CTGGTTCAAT
120	TAATACAAGA	TGACAGATGA	GTTTTAAAAG	ATGGGAGAAG	ATCTTGTTAG	CTTTTAAAGG
180	GAGTTCTTTC	GCTACATCCT	ATTGTCATAG	CTTTTTTAGC	TATTAGTAGC	AAAGTTCGTT
240	AAATCAAGAG	GATTATTATG	GCGCTTAGAG	GTGGCAAGAA	TGTATCATTT	TTTATTAGCC
300	CTGGTAGGAA	CGATAATCGT	TTCAAGGTGG	AAAATTGTGG	GAGTATGGAT	TAAAGGAAAC
360	ACTATTCTAG	GTTGGCAGCG	TCTTACCCTT	AAAAATGCAG	CGAGGGAGCA	GCGTGACGAT
420	TTTATTATGA	GTCGGATGTC	TTCCGATTTT	TTGCAGAATG	AAAGACCGTC	CAAGTGAAGG
480	CATCTTGTCA	TGAGGAAGCT	TTGACTTTGA	AATGCCAAGG	TGGTGGTTTG	ATCAGGTAGT
540	AGCAAGATGC	CAAGTATGTC	AAGCCCCTTA	ATCACTGAGG	TACTGGCGAC	AGGTGGATGC
600	AAGGTATCCA	GGGTCATGCC	TTGCCCGTGT	GGGCCAATCC	CGTTGTATTA	GCGCCTCCAT
660	GGTCTGGAAG	TCATTTGAAA	CTATTGATCT	GGTAGCCGTC	TTGTACGATT	TGCCAGGTGG
720	GAACGCTTGC	AGCCAAGGCA	GTTACATCGA	CAGACAGCTG	TAAGATTAGT	CTATGGGGGT
780	TTGATGATGG	AACGCAGAAC	GTGTTGGTGC	GACTTTCCAA	TATCTATATG	ATGGTGCTCA
840	CCTGAGATTG	TGCGCGTGAG	TTGAGAATGC	GTGACAGTGA	GGCTGATGGG	CAGCGACTCT
900	GGTACAGAGA	CAAAGGTGCT	GAGCCAAGGT	AATGAAATGG	CATTCTCCTT	TTGACTTAGC
960	GTCCAAGACC	TCACAATGTA	ATGGTACGAC	GAGAAACTTC	TACTGGTGTT	CTATAACCAT
1020	GTCTTGATTC	TGGTGGTGAT	CTGCCATGAC	ATGGTAGCTG	AGGAACCTTT	GTATCGAAGC
1080	ATGGGTGTTG	GTTACTTGAA	TGATTGCCAA	AACCGTCCCT	CTGGGAGCAC	GAGACGCTGT
1140	CTAAAAGCTG	ACTAGAAAAT	TTCGTTCTCA	GGAATTCGTG	AGAAGACGAA	AAGTAATTGA
1200	CAATTTACAG	TATGCAGGCT	TTCCAACAGA	CACCCAGGAT	AACCTTGCCC	TTCATGTGAA

			766			
CCTTGATGAC	AGTTGCAAAA	GGCGAATCAA		GACAGTTTTC	GAAAATCGTT	1260
TCCAACACCT	AGAAGAGATG	CGCCGCATGG	GCTTGCATTC	TGAGATTATC	CGTGATACAG	1320
CTCGTATTGT	TGGTGGACAG	CCTTTGCAGG	GAGCAGAAGT	TCTTTCAACT	GACCTTCGTG	1380
CCAGTGCGGC	CTTGATTTTG	ACAGGTTTGG	TAGCACAGGG	AGAAACTGTG	GTCGGTAAAT	1440
TGGTTCACTT	GGATAGAGGT	TACTACGGTT	TCCATGAGAA	GTTGGCGCAG	CTAGGTGCTA	1500
AGATTCAGCG	GATTGAGGCA	AGTGATGAAG	ATGAATAAGA	AATCAAGCTA	CGTAGTCAAG	1560
CGTTTACTTT	TAGTCATCAT	AGTACTGATT	TTAGGTACTC	TGGCTCTAGG	AATCGGTTTA	1620
ATGGTAGGTT	ATGGAATCTT	GGGCAAGGGT	CAAGATCCAT	GGGCTATCCT	GTCTCCAGCA	1680
AAATGGCAGG	AATTGATTCA	TAAATTTACA	GGAAATTAGG	CTGGAGAACC	AGCCTTTTTC	1740
TAAAGATAAG	GAGAAATATG	ААСАААААА	CAAGACAGAC	ACTAATCGGA	CTGCTAGTGT	1800
TATTGCTTTT	GTCTACAGGG	AGCTATTATA	TCAAGCAGAT	GCCGTCGGCA	CCTAATAGTC	1860
CCAAAACCAA	TCTTAGTCAG	AAAAAACAAG	CGTCTGAAGC	TCCTAGTCAA	GCATTGGCAG	1920
AGAGTGTCTT	AACAGACGCA	GTCAAGAGTC	AAATAAAGGG	GAGTCTGGAG	TGGAATGGCT	1980
CAGGTGCTTT	TATCGTCAAT	GGTAATAAAA	CAAATCTAGA	TGCCAAGGTT	TCAAGTAAGC	2040
CCTACGCTGA	CAATAAAACA	AAGACAGTGG	GCAAGGAAAC	TGTTCCAACC	GTAGCTAATG	2100
CCCTCTTGTC	TAAGGCCACT	CGTCAGTACA	AGAATCGTAA	AGAAACTGGG	AATGGTTCAA	2160
CTTCTTGGAC	TCCTCCAGGT	TGGCATCAGG	TCAAGAATCT	AAAGGGCTCT	TATACCCATG	2220
CAGTCGATAG	AGGTCATTTG	TTAGGCTATG	CCTTAATCGG	TGGTTTGGAT	GGTTTTGATG	2280
CCTCAACAAG	CAATCCTAAA	AACATTGCTG	TTCAGACAGC	CTGGGCAAAT	CAGGCACAAG	2340
CCGAGTATTC	GACTGGTCAA	AACTACTATG	AAAGCAAGGT	GCGTAAAGCC	TTGGACCAAA	2400
ACAAGCGTGT	CCGTTACCGT	GTAACCCTTT	ACTACGCTTC	AAACGAGGAT	TTAGTTCCCT	2460
CAGCTTCACA	GATTGAAGCC	AAGTCTTCGG	ATGGAGAATT	GGAATTCAAT	GTTCTAGTTC	2520
CCAATGTTCA	AAAGGGACTT	CAACTGGATT	ACCGAACTGG	AGAAGTAACT	GTAACTCAGT	2580
AAAAGATACG	CCTACACTCC	TATGTCACTT	ATGGATGTAG	GAGTTCTTTT	TACTAGTTTA	2640
AGCAGGACTA	AGACAGGTAC	TAAGACAAAA	TAGCAACTTC	TAAAACTAAC	TTCCAGTTTT	2700

2727

# (2) INFORMATION FOR SEQ ID NO: 102:

GGGAGAGAG TGGAAGTTAC TTTGAGA

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 5717 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

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# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 102:

TTTTTTGTAG	ATTTAAGTGG	GGTGCAATTC	СТААААААТА	AAAAACAATT	TTTGAAAATT	60
ATGTTAGCAG	GAATTGCTTC	AAATTCGATT	TTATCACTTA	CAGGTTTACT	TGTTTTATTG	120
TTCACATCGT	ATAAATTGCT	TGGACTCTTA	TTTTTTATCA	TTAACTTAGG	TATGATTTTT	180
ATTAATTCAA	TTCCTTTTTT	TCAGTATGAT	AGTGGTATTA	TTTTAAGATA	CTTGAATTCT	240
AACAATAATA	ACTTGAATTT	тсаататата	GTTCAACTTT	TAATAGCATT	TGTTATTATT	300
TATTTTCCTT	TGAGTCAACT	ATTACAGTTT	TTGACACCCA	ATATTATTGT	TCGTAGTATA	360
GGAGGGGTGG	TTGTTTCTAT	ACTGCTTTCT	АТАТТАТАТА	TGATAGGAAG	GACGAAATAT	420
GTTCTACGTA	AATAGTTATG	TTTTTGCTTA	TAAAAAAGAA	GGTATAATGT	ATTTACGTGG	480
TCGGAGTATG	CGGGAAATAG	CTATAGAACC	TCAAATTTCG	CAAGAATTTA	TCAACGATCT	540
ATTTAATAGT	TGTAAGGAAC	TATTAGAGAT	AGAAGAAGTA	TTAGGCAGTA	AACTAACATT	600
TGAACTATAA	ATGAACAAAT	TTTAATTTCG	GATGAGATAG	ATATTGATAG	TAGATATTCT	660
AGAACTAAAG	GTTACTATTC	GTTATTTTAT	AATGAAGAGT	АТААТАААТ	ACAGAATAAA	720
ACAGTATTAG	TATTAGGAGC	AGGAGTCTTA	GGATGTTATA	TATCTCTAAG	TCTAAGTATG	780
TATGGAGTGA	GGAAACTTAT	TGTCGCTGAT	TACGATATAA	TAGAACCATC	AAATTTAAAT	840
AGGCAAATTC	TTTATACAGA	GTCGGATGTT	GGTAAGGAGA	AGATTAATGT	TCTTTCTGAA	900
AAAATACACA	AGTATAATTC	AGATGTTCAG	GTAGTACCTA	TTTCTATTAA	AGTTTCTTCA	960
GTAGAAGAAT	TAGAAAAAAT	TGTTGCGGAA	TATGGGAGTA	TAGATTTTAT	CGTTAAAGCA	1020
ATTGATACGC	CCATTGATAT	ТАТАААААТТ	GTCAATCAAT	TTGCTGTATC	GCATAAGATA	1080
TCCTACATAT	CAGGAGGGTT	TAATGGATGC	TATCTTATTA	TTGATAATAT	ATATATCCCT	1140
ACCATCGGTT	CTTGCTTTGG	TTGTCGGAAT	ATAAACAAAG	АТАТАААТАА	GTACACTTTA	1200
TCTGATAAGA	CAAAGTGGCC	GACTACACCA	GAGATGCCTG	CTATTTTGGG	AGGGATAATG	1260
ACTAATTTAA	TAATTAAAAT	ATTTCTGGGA	TGTTATAATG	AAATCCTAAT	AGATAACGCT	1320
TACGTTTATA	ATATGAGAAA	TCATGCTCTA	AGTCAAGAAA	AATATGTTCT	GGAAAACGGA	1380
GAATGTCCAA	TTTGTAAAAA	AATAATAAAG	TGAAAGATAA	CAATATTAGA	GCGAAAACAT	1440
TTATTCGTTC	AGTTTGTTTT	TGCTTATTAT	CAGGAGGAGT	AGCTTTTTTA	TCTGCTATTG	1500
GGCAGTTCAC	TGTTATAGAA	ACACAATTAA	TAGTATTGTT	CTTGGGTATT	ATTTTTGCTA	1560
TATATTATGC	TTACTACAAT	AAAAATATTC	AAACATCATT	GGAAAATATA	GTATGGCTTT	1620

768 TTTCATCGTT TGAGATTTTA TTTTTGCTTG TTAATTTTAG AACATTTATT CAGTTACCAG 1680 TGGATATTTT TATTGGTATG ATAATATTTT TAATGCTGTG GATATTTATT ATGTTAGGTA 1740 TAGTGTGTCT TAGTTATTAT ATAACTTTAT TATTTAGCAA GGAGGCTTAG TATGTTTAAA 1800 AAAATAGGTA TAATGAGCAT TTGCATATAT ATAATTATTT TATACTGCTT GAGAATGTAT 1860 CGTATTATCA ATAATATTGA AACAATCTTG CTAACGGTTA TATGCTTAAT GTTATTGTTT 1920 TTTTTAAGAC GTTTATTTGA TAAAGATAAG TAAATAGATG TTAAGTAAAA ATGTAGAATA 1980 TAAAGGAGGT GCAATGAGTA TGATTGAAGT TAGCCATTTA TCAAAAAGTT TTGGTGATAA 2040 AATAGCTTTA AATAATATAA GCTTCACTGT TAAAGAAGGT TAGATTTTTG GATTTTTAGA 2100 ACCATCTGGT TCTGGAAAGA CCACAACGAT TAATATTCTG ACTGGGCAGT TCCTTGCCGA 2160 TAAAGGACAA TCTATTATTT TGGGACAAAA ATCTCAAAAT TTAACAAGCG GTGAATTAAA 2220 GAGAATTGGA TTGGTTAGCG ATACAAGTGG ATTTTATGAG AAAATGTCTC TGTATAACAA 2280 TCTTCTTTTT TATAGTAAAT TTTATAATAT TAGTAAATCA CGTGTTGATA ATTTGTTAAA 2340 GCGAGTAGGA TTATATGATA GTCGCAAGAT GGTAGCAGGA AAATTATCCA CTGGAATGAG 2400 GCAACGAATG CTTTTAGCAC GAGCTCTTAT CAACAACCCC GCTGTACTCT TTCTGGATGA 2460 ACCGACCTCA GGTCTAGATC CCACAACTTC TCGAACAATT CATGAGTTAA TTTTAGAATT 2520 GAAAACAGCA GGGACAACGA TTTTTCTAAC GACTCATGAT ATGAATGAAG CAACTCTTTT 2580 ATGTGATTAT GTTGCCTTAT TAAATAAAGG GAAATTAGTT GAGCAAGGAG CTCCTTCTGA 2640 ACTCATTCAA AGATATAATA AAGATAAAAA GATTAAGGTT ACAGATTATA ATGGGAATCA 2700 GATAACTTTT GATTTTACAT CACTAGAACA GGTATCTCAG ACTGATCTGG AAAATATTTT 2760 TTCAATTCAT TCATGTGAGC CTACTTTAGA AGATATTTTT ATCACATTAA CAGGAGGAAA 2820 GCTAAATGCT TAAACGGTTT CTGGCTTTGG TATGGTTGCG TTGTCAAATC ATCCTTTCCA 2880 ATAAGAGTAT TTTATTGCAA GTTTTAGTGC CTTTTGCTTT CACATATTTT TATAAATATC 2940 TTATGGAAAC ACAGGGAAG GTCAACGATC AACAGGCATT AGTTCTTTTG ATGATGTGTT 3000 TACCTTTTC TTTTTCTTTG GCTGTTGGAA GTCCTATAAC TATTATCTTG TCTGAAGAAA 3060 AAGAAAAGTA CAATTTACAA ACTCTTCTGT TGAGTGGTGT TAAAGGCTCC GAATACATTT 3120 TATCAACTAT GTTTCTCCT TTTTTGCTAA CTTTTGTGAT TATGGGAACT ACTCCTCTTA 3180 TTTTAGGAGT TACAATTGTA CATACTTTTA ATTATATAC AATCGTTCTT CTAACCTCTT 3240 TATCCATCAT TTTATTCTAT TTATTGATAG GTTTAACCGC GAAGAGCCAA GTAGTAGCTC 3300 AGGTTATCAG TCTTCCTGCT ATGATTTTAG TTGCTTTCTT ACCGATGCTA TCTGGTTTGG 3360 ATAAGACAGT TGCGAAGATA ACAGATTATA GTTTTATGGG ACTATTTACT AAGTTTTTCA 3420

CAAAATGGGA	GGAATTTTCA	TGGAATAAAA	CTCTAATTCC	TAATCTAACA	CTACTTATTT	3480
GGATTGTTCT	TCTATTAACT	TTAATTACGA	TAACTATTAG	GAAAAAGAAA	ATTTCTTAAT	3540
TGAGTTATTT	TAATGATTAT	AAACACAAGT	GGGAAGGAAA	AAATGAACTG	ATCTTTTTGA	3600
CAGCAATTCT	ACAGAATAGT	CTTATTGCTA	TATTTTGATT	TGAGTGTACG	AAAAAAGAAA	3660
AATAACAATA	GTGCTCATAC	TAATTGCAGA	AGTTTTGGGT	GATAAGATAA	СТСАТАЛАТТ	3720
GCAATAAAAA	ATGCAACATT	TTTAAATCTC	CTCTATAAGT	GCTTCAAAAA	GTGCTTCAAA	3780
ACCTGTCTTG	TAATCCAAGT	ATTTTTGGGG	ACGGTGATTA	ATAAGCTAGC	AAAGCATCAT	3840
TAAGGATTTT	TTCGGTAATT	GTTGCCAAAT	CGGTTTAAGA	AAATACTCAC	GAAGAAGTCC	3900
ATTCGCATTC	TCATTACTTC	CCCTTTGCCA	AGATGAATAG	GCATCCGCAA	AATAAAACAG	3960
AATTCCCATT	TGTTCAATTA	AAGGGTAACA	AGCAAACTCT	TTTTCTCTGT	CCGAAGTGAA	4020
AGTCTTTAAC	TATTCTTTTG	GAAAGAGTCT	TGTGAGGTGT	TCAATAGCAG	TCAACATGGA	4080
TTTAGCTGTT	TTTACTTGAC	AAGTGCTAGT	AGAAATAATA	GAATAGTAAA	AAACCTTTAA	4140
AGCAGTCCAG	AGAGGCAGCT	AAGGTTAGAC	GGTGAAAGGG	TGGAGACTAC	CCATTTTTCG	4200
TGGAACCTTG	CTGTTGGCAG	GTTCCTTTTT	TCGTGGCTTC	TGTTGGCCAG	ACTCTCTCAC	4260
TAGTAAAGGT	AAAAGGAGAA	ACCTATGCGA	GAACATCGTC	CAATCATTGC	TCTTGATTTT	4320
CCTAGTTTTG	AGGCGGTCAA	GGAATTTTTA	GCTCTTTTCC	CAGCAGAAGA	AAGCCTTTAT	4380
CTCAAGGTAG	GGATGGAGCT	TTATTACGCA	GCGGGGCCTG	AGATTGTGTC	СТАСТТАААА	4440
GGTTTGGGTC	ATAGTGTCTT	TTTGGATCTC	AAACTTCATG	ACATTCCTAA	TACAGTCAAG	4500
TCAGCCATGA	AGATCTTGTC	TCAGCTTGGT	GTCGATATGA	CTAATGTCCA	TGCGGCTGGT	4560
GGTGTAGAGA	TGATGAAGGC	GGCGCGTGAA	GGTCTTGGGA	GTCAAGCCAA	ATTGATCGCT	4620
GTAACTCAGC	TCACATCAAC	GTCAGAAGCT	CAGATGCAGG	AGTTTCAAAA	TATCCAAACC	4680
AGTCTGCAAG	AGTCTGTGAT	TCACTATGCC	AAGAAGACAG	CTGAAGCTGG	CTTGGATGGT	4740
GTTGTTTGCT	CGGCTCAGGA	AGTACAAGTC	ATCAAGCAGG	CTACCAATCC	AGATTTTATC	4800
TGTCTGACAC	CAGGGATTCG	TCCAGCTGGT	GTTGCAGTTG	GAGATCAAAA	ACGAGTCATG	4860
ACACCTGCTG	ATGCCTATCA	AATCGGCAGT	GACTATATCG	TAGTGGGACG	TCCCATTACC	4920
CAAGCTGAGG .	ATCCTGTTGC	AGCTTATCAT	GCCATCAAGG	ATGAATGGAC	ACAGGACTGG	4980
AATTAAAGAA	CTAGATTAGA	AAAATAAAAG	GAGAATACCA	TGACACTTGC	TAAAGATATC	5040
GCTAGCCACC	TCTTGAAAAT	CCAAGCCGTT	TACCTCAAAC	CAGAGGAACC	CTTCACTTGG	5100
GCATCTGGTA	TCAAGTCACC	GATTTACACT	GATAATCGTG	TGACACTAGC	CTATCCAGAA	5160

			770			
ACTCGTACCC	TAATTGAAAA	TGGTTTTGTG	GAAGCTATCA	AAGAAGCCTT	TCCTGAAGTA	5220
GAAGTGATTG	CAGGAACTGC	AACAGCAGGG	ATTCCACACG	GAGCCATTAT	TGCTGATAAG	5280
ATGGACTTGC	CTTTTGCCTA	CATCCGTAGT	AAACCAAAAG	ACCACGGAGC	TGGTAATCAA	5340
ATCGAAGGTC	GCGTAGCTCA	AGGTCAAAAA	ATGGTAGTGG	TTGAAGACCT	TATTTCAACG	5400
GGTGGTTCAG	TTCTTGAAGC	TGTAGCAGCA	GCCAAGCGAG	AAGGAGCAGA	TGTACTTGGA	5460
GTTGTAGCGA	TTTTCAGCTA	CCAATTGCCA	AAAGCAGATA	AGAACTTTGC	AGATGCTGGT	5520
GTTAAACTTG	TGACGCTTTC	AAACTATAGC	GAGCTTATCC	ATCTAGCCCA	AGAAGAAGGT	5580
TACATCACGC	CAGAGGCCT	TGATCTTCTA	AAACGCTTTA	AAGAAGACCA	AGAAAATTGG	5640
CAAGAAGGTT	AGGTCAGTAA	GATAAAGAGA	GACGAGGCTA	CCGAGTCTCT	TTTACCATTT	5700
TAAAATTTAT	ATGACAG					5717

# (2) INFORMATION FOR SEQ ID NO: 103:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 5558 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 103:

CCTGGACTTT CTAAAATGAA	ATCTTGCGAC	CTGGATCAAG	CCCTTCATGA	GCATTTTTCA	60
GAAGAAGAAT TAGCTGGTCA	CTTTCATGTC	CTTCTATGGA	CTTTTTTTAC	AATGGCATTG	120
CTATCACACC CAATACCTAT	CTAAGCGCCT	GGTTCGTAAA	CTTTATTGCA	GCTCTTCCTC	180
TAAATTTCCT AATTGTTGAA	CCAATTGCCC	GTTTTATACT	AAGTTCTTTT	CAGAAACCAT	240
TTACTGGGGA AGAAGTTGAA	GATTTTCAAG	ATGATGATGA	AATCCCAACT	ATTATCTAAG	300
CCAGTTCTGT AAACTACTAA	TATTTGAAAT	CCACTTCCTT	TTAGGGTGCA	ATGGTTATAA	360
ATGAATTTTT GAGAGGATCA	GAATGAAAAA	ACTAGCAACC	CTTCTTTTAC	TGTCTACTGT	420
AGCCCTAGCT GGGTGTAGCA	GCGTCCAACG	CAGTCTGCGT	GGTGATGATT	ATGTTGATTC	480
CAGTCTTGCT GCTGAAGAAA	GTTCCAAAGT	AGCTGCCCAA	TCTGCCAAGG	AGTTAAACGA	540
TGCTTTAACA AACGAAAACG	CCAATTTCCC	ACAACTATCT	AAGGAAGTTG	CTGAAGATGA	600
AGCCGAAGTG ATTTTCCACA	CAAGCCAAGG	TGATATTCGC	ATTAAACTCT	TCCCTAAACT	660
CGCTCCTCTA GCGGTTGAAA	ATTTCCTCAC	TCACGCCAAA	GAAGGCTACT	ATAACGGTAT	720
TACCTTCCAC CGTGTCATCG	ATGGCTTTAT	GGTCCAAACT	GGAGATCCAA	AAGGGGACGG	780
TACAGGTGGT CAGTCCATCT	GGCATGACAA	GGATAAGACT	AAAGACAAAG	GAACTGGTTT	840

CAAGAACGAG	ATTACTCCTT	ATTTGTATAA	CATCCGTGGT	GCTCTTGCTA	TGGCTAATAC	900
TGGTCAACCA	AACACCAATG	GCAGCCAGTT	CTTCATCAAC	CAAAACTCTA	CAGATACCTC	960
TTCTAAACTC	CCTACAAGCA	AGTATCCACA	GAAAATTATT	GAAGCCTACA	AAGAAGGTGG	1020
AAACCCTAGT	CTAGATGGCA	AACACCCAGT	CTTTGGTCAA	GTGATTGACG	GTATGGATGT	1080
TGTGGATAAG	ATTGCTAAGG	CCGAAAAAGA	TGAAAAAGAC	AAGCCAACTA	CTGCTATCAC	1140
AATCGACAGC	ATCGAAGTGG	TGAAAGACTA	CGATTTTAAA	TCTTAAAAAC	СААААААТА	1200
CAGTATCCAC	ATTCGGTACT	GTATTTCTTT	TACTCTCATT	CTTAAGTTAA	ATTATTAAAA	1260
TCCCATATTT	GGTCTATCCA	GCCTTCATAA	AAGTCTGGCT	CGTGGCAGAC	CATAAGGATA	1320
GATCCCCTAT	ATTCTTTGAG	AGCGCGTTTG	AGCTCATCCT	TTGCATCCAC	ATCCAAATGG	1380
TTGGTCGGCT	CGTCCAGCAC	TAAAACGTTG	TTTTCACGAT	TCATCAAGAG	ACAGAAACGA	1440
ACCTTGGCTT	GCTCTCCCCC	TGATAATACT	TGAATCTGGC	TTTCAATATG	TTTGGTTGTC	1500
AAACCACAAC	GGGCAAGGGC	TGCACGGACT	TCTGCTTGAT	TAAGGCAGG	AAAGGCATTC	1560
CAGACAGCTT	CAAGAGGAGT	TTGGCGATTA	CCGCCTTCTA	CTTCCTGCTC	AAAATAACCA	1620
AGTTCTAAAT	AATCTCCACG	CTCCACTTCC	CCAGCGATTG	GCGAGATAAT	GCCCAAGAGA	1680
CTCTTCAAGA	GAGTTGTTTT	TCCAATACCA	TTAGCACCAA	TAATCGCAAC	CTTTTGATTG	1740
CGTTCGAAGG	TAAGATTTAA	AGGCTTAGTA	AGAGGACGGT	CGTAACCAAT	TTGCAAGTTC	1800
TTGGCTTGGA	AGATAAAGCG	CCCTGGTGTA	CGAGCTGGTT	TGAAATCAAA	GGATGGTTTT	1860
GGTTTCTCAC	TTTGGAGTTC	GATAATATCC	ATCTTATCCA	ATTTCTTTTG	ACGAGACATA	1920
GCCATATTAC	GAGTTGCAAC	ACGGGCTTTA	TTACGAGCCA	CAAAGTCCTT	GAGGTCTGCA	1980
ATCTCTTTCT	GCTGGCGTTC	GTAGGCTGCC	TCTAGCTGAG	ATTTCTTCAT	AGCATAAACT	2040
TCTTGGAACT	GGTAGTAGTC	ACCAGAGTAA	CGCGTCAGCT	GTTGATTTTC	CACATGATAG	2100
ACAATATTAA	TAACGTCATT	GAGGAATGGA	ATATCGTGCG	AAATGAGAAC	AAAGGCATTC	2160
TCATAGTTTT	GGAGATAGCG	CTTGAGCCAA	TCAATATGCT	CAGCATCCAA	GTAGTTGGTC	2220
GGCTCGTCCA	ACAGCAAGAT	ATCAGGCTTT	TCAAGGAGAA	GTTTTGCCAA	AAGCACCTTG	2280
GTTCTTTGCC	CACCTGACAA	AGAAGTTACA	TCCGTATCCA	TGCCAAAGTC	CATAACACCA	2340
AGAGCACGCG	CTACTTCGTC	AATCTTAGCA	TCCAAGGTAT	AGAAATCACG	ACTCTCCAGA	2400
CGGTCTTGAA	GTTCTCCTAC	TTCTTCCATG	AGAGCATCAA	CATCCGCGCC	GTCTTCAGCC	2460
ATTTTCATAT	AGAGGTCATT	GATACGAGCT	TCAGCTTTGA	AAAGCTCATC	AAAAGCCGTA	2520
CGGAGAACAT	CACGCACCGA	CTGTCTTTCA	GCAAGGACAG	AGTGCTGATC	CAAGTAACCA	2580

772 GCCGTCACAT ATTTGGACCA CTCAACCTTT CCTTCATCTG GCAGCATTTT ACCAGTCACG 2640 ATACTCATAA AGGTTGATTT TCCTTCACCA TTGGCACCGA CCAGGCCGAT ATGTTCTCCC 2700 TTGAGGAGAC GGAAGGACAC ATCTTCAAAA ATTGCACGGT CACCAAAACC GTGACTCAGA 2760 TTTTTAACTT CTAAAATACT CATTTTAATT CCTTACCTTG TTTTTATGTA ATCGTTTATA 2820 AAGGAGCCAA GCCAGATAGC CACCCAAAGT GTTGGTCCAC AAATCATCAA TCTCAAAGAC 2880 GCGATTGAAA TCAAAGAAAA AGTCCAAGAT TAATTGCGTA CACTCGATTC CAAGACTCAC 2940 AAGAAAACTA AAAAGAAGGA CCTTTTTTGT TTTCCGCAAA TTTGGAAATA GATAAAGGAG 3000 TTGGAAAATC AGAGGAAAAA ACAAGAAGAC ATTGAGGATA TTTTGTAAAA AAATCCAACA 3060 TAATTGTCCA ATGTCACTCA CTTCGCCCAG TTTCCAGAGA GAATTGAAAG GAGTCAAAAG 3120 AAAAACCAGG CGTCCAAGAT GCTGAATACC TGGAGTTCCC ACTCCCACGG TAGATTGTTC 3180 TTGAGGAGTA AAGCAAAAAC AGACAATGCA AATGCTATAG AAAATGACTC CCCAGACCAA 3240 AATATGATTA TAAGTCTTCT TCATCATTAA GGATTTACCG CTGCGACTGC CTTCTGGCGG 3300 TCACGTTTCA TTGTGTTAGA GCGCAATTGT CCACAAGCTG CGTCAATATC TGTACCATGC 3360 TCTTGACGAA CCACACAGTT GACCCCTTTT TTCTTAAGCG TATCATAGAA AGCCAACACG 3420 CACTCTTTGG GACTACGGCT ATATTGGTCA TGCTCACTAA CTGGGTTATA AGGAATCAAG 3480 TTTACATAAG ACAATTTCTT GATGTTCTTG AGCAATTCAG TCAATTCCAA GGCTTGTTCT 3540 ACACCGTCGT TGACTTCATT AAGCATGATA TATTCAAAGG TTACACGACG GTTTGTTGTC 3600 TCAATGTAGT ATTCAATAGC AGCAAAGAGT TTTTCAATCG GAAAGGCACG GTTAATCTTC 3660 ATGATACTTG AACGAAGTTC ATTGTTAGGT GCGTGAAGAG ACACGGCAAG ATTGACCTGA 3720 ACCCCTTCAT CAGCAAAGTC ACGAATTTTA TGAGCCAAAC CTGAGGTTGA AACCGTGATG 3780 TGACGAGCAC CGATAGCCAT TCCTTTATCA TCATTGATAG TACGAAAGAA ATTCAAGACA 3840 TTGTTGTAAT TATCAAAGGG CTCACCGATT CCCATGACAA CGATATGGCT GATGCGTTCA 3900 TCCTGACCAC GCTCATCAAA GTATTTCTGA ACCAGCATGA TTTGCGCTAC GATTTCACCG 3960 TTATTGAGGT CACGTTGCTT CTTAATCAAA CCAGAGGCAC AGAAGGTACA ACCGATATTA 4020 CAGCCGACCT GAGTGGTCAC ACAGACAGAT AAACCATAGT GTTGACGCAT GAGTACAGTC 4080 TCAATTAACA TACCGTCGGG CAATTCAAAG AGATATTTGA CTGTACCATC AGCAGACTCT 4140 TGCACAATAC GTTGTTTCAA GGGATTGACC ACAAACTGGT CATTGAGCTT AGCAATCAAA 4200 TCCTTGGAAA GGTTGGTCAT TTCTTCAAAT GACTGCACAC GTTTACGGTA GAGCCATTCC 4260 CAGATTTGAT CTGCACGGAA TTTCTTTTCT CCCTGCTCCA ATACCCATTC CTGCATGGTT 4320 TGATGTACCA AACTATGAAT TGAGGGTTTC ATTTCTTCTC CTTATTCTCT ACTCACTTCT 4380

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GACGAATGAC	AAAATGACGT	TGTCCCTTGT	CGTCTTTCTG	ACGACGTCTA	TTTTTCTTAT	4440
CTGCATTCGA	CTTTCGTTTA	GTTTGAGTCG	GTTTCTTTCC	TTTTCTAGAA	GGTGTTTCTT	4500
CTTCCGTCTT	ACGCATTTTC	TTGTCAAATG	ATGCTCGCTT	AGGGGCTTCA	TTTTCTAAGA	4560
CAAAATAGGC	ACAACCATAA	CTACAATACT	CTAAAAGGTA	GTCTTGTAAA	CGACTGATTT	4620
TTTCAAGTTT	TTCTTCTGTT	CGGTCATCCT	TGTAAAAACC	TCGTAGGCGA	AGCTGTTCGT	4680
TGCTCCAGTC	CCCCACGATA	TAATCAAACT	TGGTTAATAC	TTCTGAAAAA	CGCTGATTAA	4740
AAGTCGTCAC	ATCAAAGGCA	TCCTTGATAT	TTTCAACCAA	GGAAAAAGCT	ATCCCTTCCG	4800
TTTCGACCTT	GTCCCCGTGT	AAATGGAACT	CCGGACCAGG	AAACTTGTTA	TAGTTGTATA	4860
ATTCAGGTGC	AATTTCTTTT	CGCATAGATA	TCCTTTTTTC	ACGATTACTT	AATACTTTAT	4920
тстассатаа	TTTCTAGCAG	TTAGCACGTT	ТСТСАТАААА	ATGAAAAAAG	TCTGACGATT	4980
TTGTCAGACC	AGAATCTTAT	ААССТААААА	GAGAAGAACA	ATTCTTCCCT	CCAACTATCA	5040
TTATTTAGCA	GCTGCGTACA	ATTCATCTAC	TTTATTCCAG	TTGATTACTG	AAAAGAAAGC	5100
TTTGATGTAG	TCAGGACGCA	CGTTGCGGTA	TTTCACGTAG	TAAGCATGTT	CCCAAACGTC	5160
CAAGCCCAAG	ATTGGTTTTT	TACCTTCTGA	GATTGGTGTG	TCTTGGTTTG	CTGTTGAAGT	5220
CACTTCAAGT	TTCCCTTCTT	TGTTGACAAC	CAACCATGCC	CAACCTGAAC	CAAAACGAGT	5280
TGTTGCTGCT	GCAGTGAAGG	CTGCTTGGAA	TTCTTCAAAT	GAACCAAATG	TTGCATCGAT	5340
TGCTGCTGCC	AGTTCTGCTG	AAGGAGCTGT	TTTCTCGGGA	GTCATCAATT	CCCAGAAAAG	5400
AGCGTGGTTC	AAGTGTCCGC	CACCATTGTT	GATAAGTGCT	TGACGGATAT	CAGCTGGGAT	5460
AGATTCTACA	TCAGCAAGCA	AGGCTTCAAG	GTCTTCACCG	ATTTCAGGGT	GTTTTTCTAA	5520
AGCTGCATTG	GCATTGTTGA	CATAAGTTTG	ATGGTGTT			5558

# (2) INFORMATION FOR SEQ ID NO: 104:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 6735 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 104:

GGAATTGTAA ATATCATAT	GTTTTTGCAC	CCAAATATCG	TCGTCAAATC	ATTTATGGCA	60
GATACAAAGC TAGTATCGGA	AGAATCATAC	GTGACTTATG	TGAGCGTAAG	GGTGTAATAA	120
TCCATGAAGC GAATGCTTGT	TCAGACCATA	TTCACATGCT	TATCAGTATT	CCTCCGAAAC	180

774 TTAGTGTTTC GTCCTTTATG GGCTATTTAA AGGGCAAGAG CAGTTTGATG ATTTTTGATA 240 AGCATGCGAA TTTAAAATAC AAATATGGCA ATCGCAAGTT TTGGTGTAGA GGCTATTATG 300 TAGATACGGT AGGCCGTAAT CAGAAAGTGA TAGCTGAATA TATTCAGAAT CAATTACAAG 360 AAGACAGAGT AGCAGACCAG CTCACGTTAT TCGAGTCAGT AGATCCGTTT ACTGGCGAAA 420 TAAATAAGAG GAAGTAACTA AGGTGCTTTA GCACCTGCTC GGGAAAGTGG TGCGCGAGGA 480 AGCTATTTCG GTGGGCCTTT GGCCCTGGCC GGTAGAAGCG GCTTATAGCC GCAGAACAAA 540 CCACCAGTTC ACACTGGTGG TTTTGATTTA AAAAACTTGA TACATAAAAA TAAAAGTCTA 600 TATAAAGGAT GGTAAAATTC CTGTTGTCCG ATTTGGACAA TATCCTAAAT AGTTACAATA 660 TATGGTCTAT ACTTTTCTT AGGAGAAAGC TAGATGTACA GACGTTTGAG AGATTTGAGG 720 GAGGATCATG ATCTGCCCCA AAAGCAAATA GCTACAATAC TTTCGTTTAC AAATTCAGCT 780 TATGCCAAAA TTGAACGGGG TGAGCATGCG TTGACGGCTG ATGTATTGGT TAAACTCTCA 840 GATTTCTATG ACGTCAGTAC AGACTATTTA TTGGGATTAA CTGATTTTCC TGATAAAATT 900 CGCTTTAGAA AATAATCTCC TCAATTTCAT AGAGTTTGAA AATGAGTGAG ATTTTTTATT 960 TGCCCTTTGA CAACTGAATA GCCTAAAATG GTACTTTCCT CATTTGTGGA GCAAATTTGA 1020 ATGGCTCGCC ATGATAAGAG CGATTTTAAA ATCATCAATA AAATAGAGCG ATACTTTATA 1080 TGCCATGATA CAAATGATAT ACAATGATAC TTCTGACCGT TCAGCCTGCC AACGTAAAAG 1140 AGCAGCAAGT GAAATTCTTA TGATGACTTC ATCAGTCATG CCACGTTGAA TGTGTGAGTT 1200 TGTTAGATAA ACGCAATTAA TCCTCAAAAG GTTCCCCGAA CCTTTTGAGT TCTACAGACG 1260 CATCACGTGG AGTGTGTAAG CTTGTTGCTA AAAGCGTAAA AACCTTGGAA CGAAAGGAAT 1320 AATAGACTTT CTGCGAAACA AAAATATAAT ACAATAAAAC TATGAATGAT GAAGCAAGTA 1380 AACAATTGAG CGATAGCCGT TTCAAGATCC TTGTAGGTGT TCAGCGCACG ACTTTTGAAG 1440 AGATGTTAGC TGTGTTAAAA ACAGCTTATC AACGTAAACG CGCAAAAGGT GGACGAAAAA 1500 GCAAATTAAG CCTAGACGAT CTCCTTATGG TAACTATTCA ATACATGCGA GAATAGAGCA 1560 CTTATGAACA AATTGCGGCT GATTTTGGCA TTCACGAAAG CAACTTAATC CGTCGGAGTC 1620 AATGGGTTGA AGCAACTCTT ATTCAAAATG GTTTTACGAT TTCAAATTCT GCCTTAATTC 1680 TGTAAAAACA GTAAAATTCG AAGGATTGTA AGGTAAGAGT TTTTTTCTTT CTGAAAAAAT 1740 GGTATAATAG CAATCAAAAC TAGAAAATAA AACGGAATTT GGAACAGATT TGTCTGTATC 1800 CTAGTAGAGT GGTGATACTA TGAAGATTAG TAAGAGGCAC TTATTAAATT ATTCCATCTT 1860 GATTCCCTAC TTGCTTTTAT CTATTTTGGG CTTGATTGTG GTCTATTCGA CCACCAGTGC 1920 TATTTAATT GAAGAAGGCA AGAGCGCCTT GCAGTTGGTT CGAAACCAAG GAATCTTTTG 1980

GATTGTTAGT	TTGATACTGA	TTGCCTTAAT	TTATAAATTG	AGACTAGATT	TTTTGAGAAA	2040
TGAGCGACTA	ATCATTTTAG	TTATATTAAT	AGAAATGCTT	TTATTGTTCT	TGGCTCGTTT	2100
TATTGGTATT	TCCGTAAACG	GGGCATACGG	TTGGATTTCG	GTTGCAGGAA	TAACTATTCA	2160
GCCAGCTGAG	TACTTAAAAA	TCATTATTAT	TTGGTATTTA	GCTCACCGAT	TCTCCAAACA	2220
GCAAGAAGAA	ATAGCTACTT	ATGATTTTCA	AGTTTTGACT	СААААТСААТ	GGCTTCCCCG	2280
TGCTTTTAAT	GATTGGCGAT	TCGTTCTCCT	AGTTCTGATT	GGAAGTTTGG	GAATTTTCCC	2340
TGATTTAGGA	AATGCGACTA	TTTTAGTCTT	GGTTTCCTTG	ATTATGTATA	CAGTTAGTGG	2400
AATCGCTTAT	CGCTGGTTTT	CAACCATTCT	GGCGCTCGTA	TCTGCCGCTT	CTGTCTTTGT	2460
CTTGACCACT	ATCAGCCTAA	TCGGTGTTGA	GACCTTTTCA	AAAATTCCAG	TATTCGGCTA	2520
TGTAGCCAAG	CGCTTTAGTG	CCTTTTTTAA	TCCTTTTGCC	GATCGTGCTG	ATGCAGGTCA	2580
CCAGTTAGCT	AATTCTTATT	TTGCCATGGT	CAATGGCGGT	TGGTTTGGTC	TAGGTCTTGG	2640
AAACTCGATT	GAAAAACGAG	GTTATTTGCC	AGAAGCTCAT	ACAGACTTTG	TCTTTTCTAT	2700
CGTGATTGAA	GAATTTGGCT	TTGTTGGTGC	CAGTCTTATT	TTAGCTCTCT	TGTTTTTCAT	2760
GATTTTGCGG	ATTATCTTGG	TCGGTATCCG	AGCGGAGAAT	CCTTTCAATG	CCATGGTTGC	2820
ACTCGGTGTC	GGAGGGATGA	TGTTGGTTCA	GGTATTTGTC	AATATCGGAG	GGATTTCGGG	2880
CTTGATTCCA	TCTACAGGAG	TGACTTTCCC	CTTCTTATCC	CAGGGTGGAA	ATAGTCTTCT	2940
AGTCTTATCA	GTGGCAGTAG	CCTTTGTCTT	AAATATTGAT	GCCAGTGAAA	AACGCGCTAA	3000
ATTGTACCGA	GAATTGGAAA	ATCAACCAAT	GAACCTTCTG	TTGAAGTAGG	ATAAAGAAAG	3060
GATAGTTTAT	GTCTCTTCAA	AAATTAGAAA	ATTATAGTAA	TAAAAGTGTT	GTGCAAGAAG	3120
AAGTCTTGAT	TCTAACAGAA	TTACTGGAAG	ATATTACTAA	AAATATGCTT	GCCCCAGAGA	3180
CCTTTGAAAA	AATAATACAG	TTGAAAGAAT	TATCAACGCA	GGAAGATTAT	CAAGGTCTAA	3240
ACCGTCTAGT	GACTAGCTTA	TCAAATGATG	AAATGGTCTA	TATTTCACGC	TATTTCTCTA	3300
TCTTGCCTCT	TTTGATTAAT	ATTTCAGAGG	ATGTGGATTT	AGCTTATGAA	ATCAATCATC	3360
ААААТААТАТ	TGATCAGGAC	TATTTAGGTA	AATTATCTAC	AACGATTAAA	TTGGTAGCAG	3420
AAAAGGAAAA	TGCCGTTGAG	ATCCTAGAAC	ACTTGAATGT	TGTCCCTGTT	TTGACAGCCC	3480
ATCCAACACA	AGTGCAACGC	AAAAGTATGT	TGGATTTAAC	AAATCATATT	CATAGTCTTT	3540
TGCGTAAATA	CCGTGATGTT	AAGTTGGGGT	TGATCAATAA	AGATAAATGG	TACAATGATT	3600
TGCGTCGTTA	CATCGAAATT	ATCATGCAGA	CAGACATGAT	TCGTGAGAAA	AAATTAAAAG	3660
TGACTAACGA	AATCACGAAT	GCTATGGAAT	ATTATAACAG	CTCCTTTTTG	AAAGCTGTAC	3720

			776			
CTCATTTGAC	GACGGAGTAT	AAGCGCTTAG	CGCAAGCGCA	TGGTCTGAAT	TTAAAACAGG	3780
СТАААССААТ	CACCATGGGT	ATGTGGATAG	GTGGTGACCG	TGATGGAAAT	CCATTTGTTA	3840
CAGCAAAGAC	CTTGAAGCAG	TCTGCACTCA	CTCAGTGTGA	AGTCATCATG	AACTACTATG	3900
ATAAAAAGAT	TTACCAACTT	TATCGTGAAT	TTTCTCTTTC	AACTAGCATT	GTCAACGTCA	3960
GCAAGCAAGT	CAGAGAAATG	GCTCGTCAAT	CCAAGGATAA	CTCGATTTAC	CGCGAAAAAG	4020
AGCTTTACCG	TCGTGCCTTG	TTTGATATTC	ААТСАААААТ	TCAGGCAACT	AAAACCTATC	4080
TGATTGAGGA	TGAAGAAGTT	GGGACTCGTT	ATGAAACCGC	CAATGATTTC	TACAAGGATT	4140
TGATTGCCAT	TCGAGATTCT	CTACTAGAAA	ATAAGGGCGA	GTCCTTGATT	TCAGGTGATT	4200
TTGTGGAATT	ATTGCAGGCA	GTAGAGATAT	TTGGTTTTTA	CTTAGCATCA	ATTGATATGC	4260
GACAAGACTC	TAGCGTCTAT	GAAGCCTGTG	TGGCAGAACT	CTTGAAATCA	GCAGGAATTC	4320
ATTCTCGTTA	TAGCGAGTTG	AGCGAAGAAG	AAAAGTGTGA	CCTTCTCTTG	AAAGAATTAG	4380
AAGAAGATCC	CCGAATTCTT	TCTGCGACTC	ACGCAGAAAA	ATCAGAATTA	TTAGCAAAAG	4440
AATTAGCTAT	TTTTAAGACG	GCTCGTGTTT	TGAAAGATAA	GTTGGGAGAT	GATGTCATCC	4500
GTCAGACCAT	CATTTCACAT	GCAACCAGCC	TTTCTGATAT	GCTAGAATTA	GCTATTCTGT	4560
FAAAAGAAGT	AGGACTGGTG	GATACGGAAA	GGGCGCGTGT	TCAGATTGTT	CCCCTTTTTG	4620
AAACAATTGA	AGACTTGGAT	CATTCAGAGG	AAACAATGAG	AAAATATCTT	TCTCTTAGCC	4680
PTGCCAAAAA	ATGGATTGAC	TCACGAAATA	ACTACCAAGA	AATCATGCTT	GGCTACTCTG	4740
ACAGTAATAA	AGATGGCGGT	TACTTGTCAT	CATGTTGGAC	CCTCTACAAG	GCTCAACAAC	4800
AATTGACTGC	TATTGGAGAT	GAATTTGGCG	TTAAGGTTAC	CTTCTTCCAT	GGTCGTGGTG	4860
GTACTGTCGG	TCGTGGTGGT	GGGCCAACCT	ATGAAGCCAT	TACATCTCAA	CCGCTCAAGT	4920
CTATCAAGGA	TCGTATCCGC	TTGACGGAGC	AGGGTGAAGT	AATTGGGAAT	AAATACGGTA	4980
ACAAAGACGC	CGCTTACTAT	AACCTTGAAA	TGCTAGTATC	GGCAGCTATT	AACCGTATGA	5040
TTACTCAGAA	GAAGAGCGAT	ACCAATACCC	CAAATCGTTA	TGAAACCATT	ATGGATCAAG	5100
TAGTGGACCG	TAGTTACGAT	ATCTACCGTG	ATTTGGTCTT	TGGTAATGAG	CATTTCTATG	5160
ATTATTTCTT	CGAGTCAAGT	CCAATCAAGG	CTATTTCAAG	TTTTAATATT	GGTTCTCGTC	5220
CAGCCGCTCG	TAAGACTATT	ACTGAAATCG	GTGGTTTGCG	TGCCATCCCT	TGGGTATTCT	5280
CATGGTCACA	GAGTCGTGTT	ATGTTCCCTG	GATGGTACGG	GGTTGGTTCA	AGCTTCAAGG	5340
ATTTATCAA	ТАААААТССА	GAGAATATTG	CTATCTTACG	AGATATGTAC	CAAAATTGGC	5400
CTTTCTTCCA	ATCGCTTCTT	TCAAATGTTG	ATATGGTTTT	GTCAAAATCA	AATATGAATA	5460
TGCTTTTGA	ATATGCTAAA	CTTTGTGAAG	ACGAGCAAGT	<b>ТААССССАТС</b>	<b>ጥልጥር</b> እር እርጥል	5520

	TTTTAAATGA	ATGGCAAGTT	ACTAAGAACG	TTATCTTGGC	TATTGAAGGA	CATGACGAAC	5580
	TCTTAGCTGA	CAATCCATAT	CTAAAAGCTA	GTCTGGATTA	CCGTATGCCT	TACTTTAATA	5640
	TTCTCAACTA	TATTCAGTTG	GAGTTGATTA	AACGCCAACG	TCGTGGAGAA	TTGTCCAGTG	5700
	ATCAAGAACG	ATTGATTCAT	ATCACCATCA	ACGGAATTGC	GACAGGATTG	CGTAATTCAG	5760
	GTTGATAATT	TTCAAGAGTG	AATGCTAAAA	GTGAATATCA	AAAAAATTCT	AATAGACTAT	5820
	TGACAAGTAG	TTTAAAAATG	ATATAATTTA	ACCATTCAGA	AAAGTAATCA	TACAAACTTT	5880
	TTAGAGAGTC	TGTGGTAGCT	GAAAACAGAT	AAGTGGCAAT	GATGAAAATT	GGGCTGAATG	5940
	CTATTTAGAA	TTTGAAATTA	TAAAAATTCG	GTAAGCACAC	CTTACAGTGC	ATCTCGTTAT	6000
	TGCGAGACTG	AGCGATAGGG	AAATTCCCTA	TAATTGAGGT	GGTACCGCGC	ATCGACGTCC	6060
	TCACACAAGT	TTTTTGTGTG	AGGATTTTTT	TGATGGAGGT	TAGTATGGAA	AGAAAACGAT	6120
	GGCGTCGCTT	GTTTAGATAA	GTGAAATATG	TTAAAGGAAA	TAAAAAGGAG	AAACAGAATG	6180
	AAAAATAAAC	GTTTAATTGG	AATTATTGCT	GCATTAGCAG	TCTTAGTAGC	AGGAAGCTTG	6240
	ATTTATTCTT	CAATGAATAA	ATCAGAAGCT	CAGAATAATA	AGGATGAGAA	GAAAATAACC	6300
	AAGATTGGTG	TGCTTCAATT	TGTGAGCCAT	CCATCCCTTG	ATTTGATTTA	TAAAGGGATC	6360
	CAAGATGGAC	TTGCAGAAGA	AGGATATAAA	GATGATCAAG	TTAAAATTGA	TTTTATGAAC	6420
	TCAGAAGGTG	ACCAAAGTAA	GGTTGCGACA	ATGAGTAAAC	AATTGGTTGC	AAATGGGAAT	6480
	GACCTTGTGG	TTGGTATCGC	AACACCAGCA	GCCCAAGGGT	TGGCTAGTGC	AACAAAAGAC	6540
	CTACCGGTTA	TCATGGCCGC	TATTACAGAC	CCAATTGGTG	CTAACTTGGT	TAAAGATTTG	6600
	AAAAAACCAG	GTGGCAACGT	TACAGGGGTA	TCTGACCACA	ATCCAGCTCA	ACAACAAGTT	6660
•	GAACTCATCA	AGGCTCTGAC	ACCGAATGTG	AAAACAATCG	GAGCTCTTTA	CTCAAGTAGC	6720
(	GAAGACAATT	CAAAA					6735

## (2) INFORMATION FOR SEQ ID NO: 105:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 6516 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double

  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 105:

CTAGAGGATC	CCAGCAGGTA	AATTGGCTTC	AGCTGGCAAA	AAAGTTGCCC	TCGTTGAACG	60
CAGCAAGGCT	ATGTACGGTG	GAACTTGTAT	CAACATTGGT	TGTATCCCAA	CTAAAACCTT	120

778 GCTAGTTGCT GCTGAAAAGG ACTTGTCTTT TGAAGAAGTC ATTGCTACTA AAAACACGAT 180 CACTGGTCGC CTCAACGGTA AAAACTATGC GACTGTTGCT GGTACAGGCG TAGATATCTT 240 TGATGCGGAA GCTCACTTCC TTTCAAATAA AGTCATCGAA ATCCAAGCTG GTGATGAAAA 300 GAAAGAACTG ACTGCTGAAA CAATCGTCAT CAACACTGGT GCTGTTTCAA ACGTCTTGCC 360 AATCCCTGGA CTTGCTACAA GCAAAAACAT CTTTGACTCA ACAGGTATCC AAAGCTTGGA 420 CAAATTACCT GAAAAACTTG GAATCCTTGG TGGCGGAAAT ATCGGTCTTG AATTTGCCGG 480 CCTTTACAAC AAACTTGGAA GCAAGGTCAC AGTCCTAGAT GCCTTGGATA CATTCCTACC 540 TCGTGCAGAA CCTTCCATCG CAGCTCTTGC TAAACAATAC ATGGAAGAAG ATGGCATTGA 600 ATTGCTTCAA AATATCCATA CTACTGAAAT CAAAAACGAT GGTGACCAAG TGCTTGTCGT 660 AACTGAAGAC GAAACTTACC GTTTCGACGC CCTTCTCTAC GCAACTGGAC GCAAACCAAA 720 TGTAGAACCA CTTCAACTTG AAAATACAGA TATTGAACTA ACTGAACGTG GTGCTATTAA 780 AGTAGACAAA CACTGTCAAA CAAACGTTCC TGGTGTCTTT GCAGTTGGAG ATGTCAACGG 840 TGGCCTTCAA TTTACTTACA TTTCACTTGA TGACTTCCGT GTTGTTTACA GCTACCTTGC 900 TGGAGATGGC AGCTATACAC TTGAAGACCG TCTCAATGTG CCAAATACTA TGTTCATCAC 960 ACCTGCACTT TCACAAGTTG GTTTGACTGA AAGCCAAGCA GCTGATTTGA AACTTCCATA 1020 CGCTGTTAAG GAAATCCCCG TTGCAGCAAT GCCTCGTGGT CACGTAAATG GAGACCTTCG 1080 CGGTGCCTTC AAAGCTGTTG TCAATACTGA AACAAAAGAA ATTCTTGGAG CAAGCATCTT 1140 CTCAGAAGGT TCTCAAGAAA TCATCAACAT CATCACTGTT GCTATGGACA ACAAGATTCC 1200 TTACACTTAC TTCACAAAAC AAATCTTCAC TCACCCAACC TTGGCTGAGA ACTTGAATGA 1260 CTTGTTTGCG ATTTAAGTTG AGATTTAATC GTATCGAACA GCCCTCTTTG GGCTGTTTTT 1320 ACTTCTGCGG AATCTCAAAT CTGTCTTTCT CCTCTTTTAT GATATAATAG AAACATGAAC 1380 TTAAAAACTA CTTTGGGCCT TCTTGCTGGG CGTTCTTCCC ACTTCGTTTT AAGCCGTCTT 1440 GGACGTGGAA GTACGCTCCC AGGGAAAGTC GCCCTTCAAT TTGATAAAGA TATTTTACAA 1500 AACCTAGCTA AGAACTACGA GATTGTCGTT GTCACTGGAA CAAATGGAAA AACCCTGACA 1560 ACTGCCCTCA CTGTCGGCAT TTTAAAAGAG GTTTATGGTC AAGTTCTAAC CAACCCAAGC 1620 GGTGCCAACA TGATTACAGG GATTGCAACA ACCTTCCTAA CAGCCAAATC TTCTAAAACT 1680 GGGAAAAATA TTGCCGTCCT CGAAATTGAC GAAGCCAGTC TATCTCGTAT CTGTGACTAT 1740 ATCCAGCCTA GTCTTTTTGT CATTACTAAT ATCTTCCGTG ACCAGATGGA CCGTTTCGGT 1800 GAAATCTATA CTACCTATAA CATGATATTG GATGCCATTC GGAAAGTTCC AACTGCTACT 1860 GTTCTCCTTA ACGGAGACAG TCCACTTTTC TACAAGCCAA CTATTCCAAA CCCTATAGAG 1920

TATTTTGGTT	TTGACTTGGA	AAAGGGACCA	GCCCAACTGG	CTCACTACAA	TACCGAAGGG	1980
ATTCTCTGTC	CTGACTGCCA	AGGCATCCTC	AAATATGAGC	ATAATACCTA	TGCAAACTTG	2040
GGTGCCTATA	TCTGTGAAGG	TTGTGGATGT	AAACGTCCTG	ATCTCGACTA	TCGTTTGACA	2100
AAACTGGTTG	AGTTGACCAA	CAATCGCTCT	CGCTTTGTCA	TAGACGGCCA	AGAATACGGT	2160
ATCCAAATCG	GCGGGCTCTA	TAATATCTAT	AACGCCCTAG	CTGCTGTGGC	CATCGCCCGT	2220
TTCCTAGGTG	CCGATTCGCA	ACTCATCAAA	CAGGGATTTG	ACAAGAGCCG	TGCTGTCTTT	2280
GGACGCCAAG	AAACCTTTCA	TATCGGTGAC	AAGGAATGTA	CCCTTGTCTT	GATTAAAAAT	2340
CCAGTCGGTG	CAACCCAAGC	TATCGAAATG	ATCAAACTAG	CACCTTATCC	ATTTAGCCTA	2400
TCTGTCCTCC	TTAATGCCAA	CTATGCAGAT	GGAATTGACA	CTAGCTGGAT	CTGGGATGCA	2460
GACTTTGAAC	AAATCACTGA	CATGGACATT	CCTGAAATCA	ACGCTGGCGG	TGTTCGTCAT	2520
TCTGAAATCG	CTCGTCGCCT	CCGAGTGACT	GGCTATCCAG	CTGAGAAAAT	CACTGAAACG	2580
AGTAATCTGG	AGCAAGTTCT	CAAGACCATT	GAGAATCAAG	ACTGCAAGCA	TGCCTATATT	2640
CTGGCAACTT	ATACTGCCAT	GCTGGAATTT	CGTGAACTGC	TGGCTAGTCG	TCAGATTGTT	2700
AGAAAGGAGA	TGAACTAATG	GTTTATACTT	CACTTTCCTC	AAAAGATGGC	AATTACCCCT	2760
ATCAGCTCAA	CATTGCCCAC	CTCTACGGAA	ATCTCATGAA	TACtACGGGG	ACAATGGAAA	2820
CATCCTCATG	CTCAAGTATG	TGGCTGAAAA	ACTGGGAGCC	CATGTGACCG	TTGACATCGT	2880
TTCTCTCCAT	GATGACTTTG	ATGAAAATCA	CTACGACATC	GCCTTTTTCG	GTGGTGGTCA	2940
AGACTTTGAA	CAAAGTATCA	TTGCAGACGA	CCTACCTGCT	AAAAAAGAGA	GCATTGACAA	3000
CTACATCCAA	AACGACGGTG	TAGTTCTGGC	TATCTGCGGT	GGTTTCCAAC	TATTGGGTCA	3060
ATATTATGTT	GAAGCTTCAG	GAAAACGTAT	CGAAGGGCTA	GGGGTCATGG	GACACTACAC	3120
GCTCAACCAG	ACCAATAACC	GTTTTATCGG	TGACATCAAG	ATTCACAATG	AAGATTTCGA	3180
TGAAACCTAC	TATGGATTTG	AAAATCACCA	AGGTCGTACC	TTCCTCTCTG	ATGACCAAAA	3240
ACCGCTGGGA	CAGGTTGTCT	ATGGAAATGG	AAACAACGAA	GAAAAGGTCG	GTGAAGGGGT	3300
TCATTATAAG	AATGTCTTTG	GTTCCTACTT	CCACGGGCCT	ATCCTCTCTC	GTAATGCCAA	3360
TCTGGCTTAT	CGCCTAGTTA	CTACTGCCCT	CAAGAAGAAA	TATGGTCAGG	ACATCCAACT	3420
CCCTGCCTAT	GAGGACATTC	TCAGCCAAGA	AATCGCTGAA	GAGTACAGTG	ACGTCAAAAG	3480
CAAGGCTGAC	TTTTCTTAAA	CAAAGGAAAA	TGATATCAAA	GAACTCCGTT	ATCTTGTCGG	3540
AGTTTTTTGT	CTTTTCTTTT	ACCCTTCTCC	CTTGCATTTT	CTCTCATTTT	TTGCCAAAAT	3600
AGAGGGGTAG	AAAGAAGGTA	GCATATGTCT	AAATTACAAC	АААТССТААС	ATATCTTGAA	3660

			780			
TCAGAAAAAC	TAGACGTCGC	TGTCGTATCT	GACCCCGTCA	CAATCAATTA	CCTCACTGGT	3720
TTTTACAGTG	ATCCCCATGA	ACGCCAAATG	TTCCTCTTTG	TCCTAGCAGA	TCAGGAACCT	3780
CTCCTCTTTG	TCCCAGCTCT	TGAAGTAGAA	CGTGCAAGTA	GCACCGTTTC	CTTCCCAGTA	3840
GTGGGCTATG	TCGATTCTGA	AAATCCATGG	СААААААТСА	AACATGCTCT	TCCACAACTT	3900
GACTTCAAAC	GTGTCGCTGT	TGAGTTTGAC	AATCTCATCT	TGACCAAATA	CCATGGTTTG	3960
AAAACAGTTT	TTGAGACTGC	TGAGTTTGAC	AACCTCACTC	CTCGTATCCA	ACGCATGCGC	4020
CTCATCAAAT	CAGCTGATGA	AGTGCAAAAA	ATGATGGTTG	CAGGTCTTTA	TGCTGACAAG	4080
GCTGTTCATG	TTGGTTTTGA	CAATATTTCT	CTTGATAAGA	CTGAGACAGA	TATCATCGCA	4140
CAAATCGACT	TTGCCATGAA	ACGTGAAGGT	TATGAAATGA	GCTTTGATAC	CATGGTCTTG	4200
ACTGGTGATA	ATGCTGCGAA	TCCACACGGC	ATTCCAGCAG	CTAATAAGGT	TGAAAATGAT	4260
GCTCTTCTCC	TCTTTGACCT	GGGTGTTCTG	GTCAATGGCT	ATGCGTCAGA	TATGACTCGT	4320
ACAGTCGCTG	TCGGCAAACC	AGACCAATTC	AAGAAAGATA	TTTACAACTT	GACTCTTGAA	4380
GCCCAACAAG	CTGCTCTTGA	CTTTATCAAG	CCAGGTGTGA	CTGCTCATGA	AGTGGACCGC	4440
GCTGCCCGTG	AGGTCATCGA	AAAAGCTGGT	TATGGTGAGT	ACTTCAACCA	CCGTCTCGGG	4500
CATGGTATCG	GTATGGATGT	CCATGAATTC	CCATCTATCA	TGGAAGGAAA	CGACATGGTC	4560
ATCGAAGAAG	GCATGTGCTT	CTCTGTTGAA	CCAGGTATCT	ATATCCCTGG	TAAAGTCGGT	4620
GTTCGTATTG	AAGACTGCGG	TGTTGTTACC	AAGGATGGCT	TCAACCTCTT	TACAAGCACC	4680
AGCAAAGATT	TGCTTTATTT	TGATTAAACT	ATATAGCCCC	TATGCTTTCC	TTTCAAAATA	4740
TCTAGGGGCT	ATTTTATTGT	CATTTTTCTG	CTATTATGCT	AAAGAAATTG	GCTGCAATAA	4800
CTAACCCTA	AGTGTCTGGA	ATGATAACGA	GGGTGCTCTC	CGCTTTTATC	AAAGACAAGG	4860
GATGAAACCC	CAAGAAACAA	CAATGGAAAT	GATAATTGAT	TAAGAAGTCA	TCTATCAAAA	4920
GATGTTAGAA	AAAGTTCAAT	TTCACTAGAA	AATGAGGAAA	ATCTCCCCAC	AATAAAACGC	4980
ATAGTATCAG	GTATTGTGTA	CTGACCCCAA	ACAGTTAGAC	AATTAATTTA	TCCGAAGGAT	5040
PTAGTTCTGT	ACTGCACAGG	ACTAAGTCCT	TTTAGTTTTA	CCTTAATTCG	TTTGTTGTTG	5100
PAGTAATCAA	TATAGTCTAT	AATGACTTGT	TCCAATTGGT	TAAGTGATTT	AAATGTTTTC	5160
PCATAGCCAT	AAAACATTTC	GGATTTTAAA	ATGCCAAAGA	AAGATTCCAT	CATACCGTTG	5220
CTTGGCTGT	TTCCCTTGCG	TGACATAGAT	GCTTGAATTC	CCTTATTCTC	TAGGAACCGA	5280
rgataagaat	CGTGTTGGTA	TTGCCAGCCT	TGGTCACTAT	GGAGAATCGT	ATTCTCGTAG	5340
FGCTTCTCTT	TGAATGCCTG	TTCCAACATT	GTTTGTACTT	ATTCTAAATT	AGGCGAACAA	5400
GAAAGATTAA	AAGCAATAAT	TTCGCTGTTA	AAGCCATCTA	AAACTGGTGA	TAAGTAAAGC	5460

781

TTTTGAGTAC	TTGCTGGAAT	GGCAAATTCA	GTCACATCTG	TGTAGCACTT	TTCCATTGTT	5520
TTAGAGCCTT	CAAATTGGGC	TTGAATGAGA	TTCTCTGCCT	TCTTACCAAC	GTCTCCTTTA	5580
TGAGAAGAAT	ATTTTCGTTT	CTTTCGCATT	TTAGCTTGTA	AATTGAGTAC	TTTCATCAAG	5640
CCTTGAACTC	TTTTATGATT	TACCAGATAA	CCACGATTTC	TTAGTTCTAA	ATGAACCCGG	5700
CGATAAGCAT	AATTTCCCTT	GTGTTCGATA	AAGATGGATT	GAATTTCAGT	TTTAAGCTCT	5760
TGGTCTTTAT	CTGTTTTGTC	TAGCTGTTTC	AAGTGATAGT	AGTAGGTCCA	ACGAGCTAGT	5820
TTAATGGCTT	CTAGAAGAAG	ATCTAACGAA	AACTCAGTCA	TTAATTCTTG	AACAATTTCT	5880
GTCTTTCTTC	TTTCTCTTTT	TCCTCCTTCA	ATCGGAGTTC	TCTTAACTTT	TTTAGGATGG	5940
CATTCTCCGC	TCTCAGGTAC	TCTCCCTCTT	GTTTTCTCAA	CAATAGTATA	CCCGTTTTTC	6000
CTGTATTGTG	CTAGCCAGTT	AAGAAGTATC	GTACGACTTG	GGAGACCGTA	TTCAAGAGAA	6060
ACTCTATCTT	TAGTCCAGCC	TTCATGTCAG	ACTTTATTAA	CCCCAATTAT	TCACCCCAAA	6120
PCTAAAAACC	ATCCAGAATC	CTTGCCTTAG	CTTAGATCCT	GGATGGTTTC	TTTTTTCACC	6180
CAATGGGTGT	TTTTTACTAG	ACAAAAAAGA	GTTTCCCCTT	TATGGTATAA	GTGTAGAAAA	6240
AAACACAAAA	AGAAAGGAAA	CTCACATGAA	CAGTTTACCA	AATCATCACT	TCCAAAACAA	6300
GTCTTTTTAC	CAACTATCTT	TCGATGGAGG	TCATTTAACC	CAGTATGGTG	GTCTTATCTT	6360
TTTTCAGGAA	CTTTTTTCCC	AGTTGAAACT	AAAAGAGCGG	ATTTCTAAGT	ATTTAGTAAC	6420
GAATGAmCAA	CGCCGCTACT	GTCGTTATTC	GGATTCAGAT	ATCCWTGTCC	AGTTCCTCTT	6480
rcaactgtta	ACAGGTTATG	GAACGGAATA	TGCTTG			6516

# (2) INFORMATION FOR SEQ ID NO: 106:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 14654 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 106:

TTTTCAACCC	ATATCGTGGC	TCCTGAATAC	TACTTACTGA	CAACTATGCT	ATCAGAGACT	60
TCTCTACTTG	TTTTCTATAT	CATTTTCATC	CATAGAAAAC	AACTCATCCA	CTTGGGACAT	120
ATCTTTAGCT	ATACTGTTCG	ATACTCTCTC	TTTTCACTTT	CCTTTGTAGC	AATTTATTTC	180
CTGATTAATT	TCGTGTATCC	TGTAGATATG	GTCATTAATT	TGCCATTTTT	GATTAATACT	240
GGTTTGATTG	TCTTGCTATC	AGCTATCTCT	TATATTAGTC	TACTTGTCTT	CACAAAAGAT	300

782 AGCATTTTCT ATGAATTTTT AAACCATGTC CTAGCCTTAA AAAATAAATT TAAAAAATCA 360 TAGGAGTTTA AAATGAAACA ACTAACCGTT GAAGATGCCA AACAAATTGA ATTAGAAATT 420 TTGGATTATA TTGATACTCT CTGTAAAAAG CACAATATCA ACTATATTAT TAACTACGGT 480 ACTCTGATTG GGGCGGTTCG ACATGAGGGC TTTATCCCTT GGGACGACGA TATTGATCTG 540 TCCATGCCTA GAGAAGACTA CCAACGATTT ATTAACATTT TTCAAAAGGA AAAAAGCAAG 600 TATAAGCTCC TATCCTTAGA AACTGATAAG AACTACTTTA ACAACTTTAT CAAGATAACC 660 GACAGTACGA CTAAAATTAT TGATACTCGA AATACAAAAA CCTATGAGTC TGGTATCTTT 720 ATCGATATTT TCCCTATAGA TCGCTTTGAT GATCCTAAGG TCATTGATAC TTGTTATAAA 780 CTGGAAAGCT TCAAACTGCT GTCTTTCAGT AAACATAAAA ATATTGTCTA TAAGGATAGC 840 CTTTTAAAAG ATTGGATACG AACAGCCTTC TGGTTACTCC TTCGACCGGT TTCTCCTCGT 900 TATTTGCAA ATAAAATCGA GAAAGAAATT CAAAAATATA GTCGTGAAAA TGGGCAATAT 960 ATGGCTTTTA TCCCTTCAAA ATTTAAGGAA AAGGAAGTCT TCCCAAGTGG TACCTTTGAT 1020 AAAACAATCG ATTTACCCTT TGAGAATTTA AGCCTTCCTG CACCTGAAAA ATTTGATACT 1080 ATTTTGACAC AATTTTATGG AGATTATATG ACCCTACCAC CAGAAGAAAA ACGCTTCTAC 1140 AGTCATGAAT TTCACGCTTA TAAATTGGAG GATTAGGATG CAATATTTAG AAAAAAAAGA 1200 AATTAAAGAA ATTCAACTAG CCCTGCTGGA CTATATTGAT GAGACTTGTA AGAAACATGA 1260 TATTCCTTAT TTTCTCAGTT ATGGAACCAT GCTTGGAGCC ATCCGCCACA AAGGTATGAT 1320 TCCTTGGGAT GATGATATTG ATATTTCCCT TTATCGTGAG GATTATGAGC GTTTACTGAA 1380 GATTATTGAA GAAGAAAATC ACCCTCGCTA CAAGGTTCTT TCCTACGATA CATCTTCTTG 1440 GTACTTCCAT AATTTCGCAT CGATTTTGGA CACTTCTACT GTTATAGAAG ACCATGTTAA 1500 GTACAAGCGT CATGATACCA GCCTTTTCAT CGATGTCTTC CCAATTGATC GATTTACAGA 1560 CTTGAGCATT GTCGACAAGA GCTATAAGTA TGTGGCTCTT CGTCAACTAG CTTATATCAA 1620 AAAATCACGA GCAGTTCACG GTGATAGCAA ACTAAAAGAT TTTCTTAGAT TATGTAGCTG 1680 GTACGCTCTC CGATTTGTCA ATCCTCGCTA CTTTTACAAG AAAATTGATC AACTAGTCAA 1740 AAATGCTGTA ACCAACACTC CTCAATATGA AGGAGGAGTT GGGATCGGTA AGGAAGGGAT 1800 GAAAGAAATC TTCCCAGTTG ATACCTTTAA AGAACTGATT TTAACTGAGT TTGAGGGCCG 1860 TATGTTGCCT GTTCCCAAAA AATATGACCA ATTTTTAACC CAGATGTATG GCGATTATAT 1920 GACACCACCA TCAAAAGAAA TGCAAGAGTG GTATAGTCAT AGCATTAAAG CTTATCGCAA 1980 AAACTGATTG AGGGGGATTA TACAAACTAC TAAGATAGAG GTTATTCAAA AACATAATTT 2040 TAGTAGAAAA TGAAATACAT ATTCCCACAA TAAAACGCAT CATATCAAGG TTTTTGAAAA 2100

ACCTTGATAT GA	ATGCGTTTT	ATAATTTTAA	AGACTTTTTT	CTATAGTAGA	TTGAAATAAG	2160
ATGCGAACAA AT	<b>I</b> CAATTAGA	AAATTCAAAT	TAATTTATAG	AAATATTTTA	GTATTCCTGT	2220
GTACTGTTCT A	AATTCAGTC	TGCTATATCT	TATTTTTCTA	TTTAAATCGC	TTCTGTAACA	2280
AAGCTACGAC T	TTCAAGTAC	CTTAAGCATG	GCATTAGCTG	TATCTAGCGC	TGTGAAGAGG	2340
GGCACCCCGT G	TTCAATGGC	TGAACGACGA	ATTTGCTCAC	CATCTTCGTC	AGCAGTTCGT	2400
TTTGTTCCTA CT	TGTGTTAAT	GATAGCTTGA	ATTCTTCCTT	TGCGTACAAA	ACTTGGGATA	2460
TCCTTATCGT CA	ATCACCAAT	CTTACCAACA	GGTTGGGCTT	GCAAGCCATG	ACTAGCAAAG	2520
AAGGCTGCTG TO	CCCTTCTGT	CGCAAGGATT	CCATAACCAA	TGTTTTGGAA	ACGACGAGCC	2580
AAGTTCAAGG CT	PTCTTCTTT	GGCATCATCA	GCGATGGTAA	AGACGACATT	ACCAAAAGTT	2640
GGCAAGTGTA GA	ATAAGAAGC	TTCAAAGGCT	TTATAGAGAG	CTTTTTCCAA	AGTAGCATCA	2700
GAACCCATAA CI	TTCACCTGT	TGACTTCATT	TCAGGACCGA	GCAAGCTGTC	TACCTTAGCT	2760
AGTTTGGTAA AG	GGAGAAGAC	AGGTGCCTTG	ATATGAACAC	GGGTGCTTTC	AGGGTAAAGT	2820
CCATTTTGGT AC	GCCAAGTTC	TGATAAACTT	TGACCAAGAA	TGAGTTTGGT	CGCTACTTGA	2880
GCCATAGGAA TA	ATTGGTTAC	CTTAGATAGG	AATGGAACAG	TACGGCTGGC	ACGTGGATTG	2940
ACCTCAATAA CO	GTAGACTTT	TTCATCCTTG	ATAACAAACT	GGATGTTCAT	CATTCCAAGG	3000
CAGTGAAGAC CO	GATTGCTAA	GCGTTTGGTG	TAGTCTGCGA	TGGTCTCCTG	AACCTTTTGC	3060
GACAAGGTTT GT	rggtgggta	AACAGCCATT	GAGTCACCTG	AGTGGACACC	AGCACGTTCG	3120
ATATGCTCCA TO	GATACCAGG	AATGAGTACA	TTTTTACCAT	CTGAAATGGC	ATCAACTTCG	3180
CACTCTTGCC CA	AACGATATA	AGAGTCGACA	AGAACTGGGT	GGTCTGGACT	AGCCTTAACA	3240
GCAGTTCGCA TO	GTAAGAACG	AAGGTCTTCT	TCGTTTTCAA	CGATTTCCAT	GGCACGTCCA	3300
CCAAGTACAT AA	AGATGGGCG	GACAAGAACT	GGGAAGCCAA	TCTTGCGAGC	TGCAAGAGCT	3360
GCTTCTTCTT CA	ATTGGTAGC	CGTTTGTCCT	GGTGGCTGTG	GAATATCCAA	TTCTTTGAGA	3420
GCTTGCTCGA AC	GAGGTCACG	GTCTTCGGCA	CGATCTAGGT	CAGCAACCTG	TGTACCAAGG	3480
ATGGTCACAC CT	rgcttttgc	CAATGGCTCC	GCAAGGTTGA	TGGCTGTTTG	ACCACCGAAC	3540
TGAACGATAA CT	rccctttgg	TTGTTCCAAG	TCAATGACGT	TCATAACATC	TTCGAATGTC	3600
AATGGCTCAA AC	STAAAGCTT	ATCTGATACA	GAGAAGTCTG	TTGAAACGGT	CTCTGGGTTT	3660
GAGTTCATGA TO	GATAGCTTC	ATAACCAGCT	GCCTGGATAG	CCTTAACAGA	GTGAACGGTT	3720
GCGTAGTCAA AC	CTCAACCCC	TTGACCGATA	CGGATTGGAC	CTGAACCTAG	GACAAGTACA	3780
GATTCTTTAT CA	AGATCTGAT	AGATTCATTT	TCCCAACCAT	AGGTTGAATA	GAAATATGGC	3840

			784			
GTTTCGGAGT	CGAACTCTGC	CGCACAAGTG	TCTACCATCT	TATAAACTGG	AACAATCTTG	3900
TTTTCCAAGC	GAAGTTGGCG	AACTTTATCA	TCAGTCGTTC	CCCAGAGTTC	AGCAATCTTA	3960
CGGTCTGAAA	AACCATTAAG	TTTGGCTGTT	TTCAAAACTT	CTAAATCTTG	TGGATGAGCA	4020
CCCAATTCTT	GCTCAATTTC	AAAGATATGC	AAGAGTTTAT	CAAGATAGAA	GATATCAATT	4080
TTTGTAAGCT	CTGCAATTTC	TTCAGGTGTG	TAGCCACGAC	GAATGGCTTC	TGATACGTAG	4140
AAGAGACGGT	CATCTTGGGC	TTTGACAACC	TTTTCAATCA	AGGCATCATC	AGAAACTGCT	4200
GCAAGTTCAG	GTATTTCATT	GTGGTGCACC	CCAATTTCAA	GGGAGCGGCA	GGCCTTGAGA	4260
AGAGATTCCT	CGATGTTACG	ACCGATTGCC	ATGACTTCTC	CAGTCGCCTT	CATTTGTGTA	4320
CCGAGACGGC	GTTCACCCTT	TTCAAACTTG	TCAAATGGGA	AACGTGGAAT	CTTAGCAACT	4380
ACGTAGTCAA	GGGCTGGTTC	AAACATGGCA	TAGGTTGAAC	CTGTAACTGG	GTTTATAACC	4440
FCATCCAAGG	TCAAACCTAC	TGCAATCTTG	GCAGCCAACT	TAGCAATCGG	ATATCCTGTC	4500
GCTTTAGAAG	CAAGGGCTGA	CGAACGTGAT	ACACGAGGGT	TTACTTCGAT	AACATAATAC	4560
PTGAAGCTGT	TAGGATCAAG	AGCTAGCTGA	ACATTACATC	CACCTTCAAT	CTTGAGGGCA	4620
CGAATAATGC	TCAAGCTCGC	ATCACGAAGC	ATTTGGTTTT	CATAGTCTGA	CATGGTTTGC	4680
GCAGGGGCAA	ATACAATGGA	ATCCCCTGTG	TGAATCCCAA	CTGGGTCAAA	GTTTTCCATG	4740
PTACAAACAA	CCAAGGCATT	GTCAGCTGAG	TCACGCATCA	CTTCGTATTC	AATTTCCTTG	4800
AAACCGGCAA	TCGAACGCTC	AATCAAACAT	TGGGTAACAG	GTGACAATTT	CAAACCATTT	4860
PCAGTGATTT	CACGCAATTC	TTTCTCGTTG	GCACACATAC	CACCACCAGT	ACCACCAAGG	4920
GTAAAGGCTG	GACGAACGAT	GACTGGGTAG	CCAATTGTCG	CTGCAAAGGC	AACTGCTTCT	4980
PCTACTGTGT	TAACAATTTC	AGATTCTGGA	ATGGGTTGTT	CAAGCTCTTC	CATCAATTGT	5040
TTAAAGAGGT	CACGGTCCTC	CGCTTGGTCA	ATGGCAGATA	ATTTGGTACC	CAGAAGTTCA	5100
ACGCCAAGCT	CGTCTAGGAT	ACCATTTTTA	GATAATTCCA	TGGCCATGTT	GAGACCTGTC	5160
rgaccaccga	GTGTTGGTAG	CAAGGCATCT	GGACCTTCCT	TACGAAGAAT	ACGTGTCACA	5220
ACTCAAGTG	TAATCGGTTC	AATGTAAACC	TTGTCAGCAA	TTTCCTTGTC	CGTCATGATG	5280
GTTGCAGGAT	TTGAGTTAAC	CAAAACAACC	TCATAACCTT	CCTCTTTCAA	CGACAAGCAA	5340
GCCTGAGTCC	CAGCGTAGTC	AAACTCAGCA	GCCTGACCAA	TAATAATCGG	ACCAGAACCA	5400
ATCACCATAA	TTTTTTGAAT	ATCAGTACGT	TTAGGCATAT	ATAAGATATT	AAGGGTGTCA	5460
AGCGGACAAA	GCTAAAATAG	GAGTTATGAC	GAAGAACTGT	CAGTTCTAGG	AATAACTATC	5520
TTTTAGCAC	CGTCCGTAGC	CCGTATTCAG	TTCAGCAAAT	ACGGAGCACC	CTTCTCCTTT	5580
CTATTCGTCG	CCTCTCAGGG	CGACATTAAA	<b>ТААСАТАСА</b> А	AGGACGAATA	GAAAGCGATTT	5640

GAATTTTAGG	AAATCAAGGA	AGGATTGACA	ATCCAAGTTG	GTTTCTCTAC	ATTCTGAGCT	5700
TTCCGTCCGT	GTTCAGTTAC	ATAAATTCTC	CGACGAGCTT	TTACTCGTTC	TTAGTTTGAT	5760
TGTTTAAAAA	CTTCCATCAT	CTCGATAAAC	TCGTCAAATA	GGTAGCTAGC	GTCGTGTGGC	5820
CCAGGAGCTG	CATCTGGGTG	GTATTGAACA	GAGAAAGCAG	GTTGGTATCT	GTGGCGCACA	5880
CCTTCCACTG	ACTTGTCATT	GATTTCTTCG	TGGGTAATAA	TCAAGTGCTC	TGGCAAATCC	5940
TCGCGGCTGA	CTGCATAACC	ATGGTTCTGG	CTGGTGAAGT	CTACTCGTCC	TGTTGCGATT	6000
TCACGTACCG	CATGGTTGAA	TCCACGGTGG	CCAAACTTCA	TCTTATAGGT	CTTAGCCCCG	6060
TTTGCCATTG	CAAAGAGTTG	GTGTCCCATA	CAAATACCAA	AGATTGGAAT	TTTTCCTTGT	6120
ACACCGCGAA	TCATGTCGAG	TGCTTGTGGA	ACGTCTTCTG	GGTTACCTGG	ACCATTTGAC	6180
AACATAACTC	CGTCAGGATT	GAGATGGAGA	ATTTCTTCAG	CCGTTGTCGA	ATAAGGAACA	6240
ACTGTCACGT	TACAGTTGCG	TTTAGAAAGT	TCACGTAGGA	TTGAGTGCTT	GAGACCAAAG	6300
TCCACTAGCA	CCACGCTCAA	ACCAACTCCT	GGAGCTGGAT	AAGACGTTTT	AGTAGAAACC	6360
TGTTTGATAT	TGTCTGTCGG	TAAAACTGTT	GCTTGGAGCT	GGTCCGTCAC	ATGGTCCATA	6420
CTGTCCCCAA	CATGGGTCAA	GGTTGCACGC	ATAGTACCAT	GCTTACGGAT	AATCTTGGTA	6480
AGAGCACGCG	TATCAATTCC	TGAAATCCCT	GGAATTTTCT	TGGCTTTCAA	AAATTCATCC	6540
AAGGTCATTT	GGTTGCGCCA	GTTGCTAGCT	CTACGCGCTT	CTTCAAAAAC	AACGACTCCC	6600
TTACAAGTTG	GAATAATGGA	TTCATAATCA	TCACGATTAA	TACCATAATT	TCCTACCAAA	6660
GGATAAGTAA	AGGTCAAGAT	TTGTCCATTA	TAAGACTGGT	CTGTAATGGA	TTCTTGGTAG	6720
CCGGTCATCC	CTGTATTAAA	GACGATTTCG	CCTGTTACAT	CAATATCTGC	TCCGAAGGCC	6780
TTGCCTTCAA	AAACTGTGCC	ATCTTCTAAT	ACTAGAATTC	TTTTTGTCAT	ATTTTCACCT	6840
CTCGTGGACG	CTCACTGGCG	TCTTTTAACG	TCTTGTGTTT	TAGTTGGCGT	TTCTACTCGC	6900
TAGTACGGAT	TCTAAGATTG	CCATTCGAAC	AAAGACACCA	TTGGTCATTT	GTTGGACAAT	6960
CCGTGATTTT	GGTGCTTCAA	CCAAGTGGTC	TGCTATTTCT	ACATCACGAT	TGATTGGAGC	7020
TGGGTGCATG	AGGATTGCTG	TTTCTTTCAA	ACGATCGTAA	CGTTCTTGAG	TCAAGCCATG	7080
TTGGGCATGG	TAGTCTTCTT	TTGAAAATAC	AGCTCCACTA	TCATGGCGTT	CGTGTTGCAC	7140
ACGGAGAAAC	ATCATGACAT	CAACCTGATC	AATGATTTCA	TCAATGGTTA	CAAACTGTCC	7200
ATAGTCTGCA	AACTCTTGAC	TTCTCCATTC	CTCAGGTCCA	GCGAAAAAGA	GTTCAGCTCC	7260
CAAGCGTTTC	AAAATCTGCA	TATTGGATTT	GGCAACGCGT	GAGTGGTCCA	AGTCACCTGC	7320
AATAGCAACT	TTAAGACCCT	CAAAGTGGCC	AAATTCCTCA	TAAATGGTCA	TCAAATCAAG	7380

786 CAAGCTCTGG CTAGGGTGTT GGCCCGAACC ATCTCCACCA TTGATGATGG AAGTCGTAAT 7440 CGTTGGACTA GCAATCAATT CTCTATAGTA GTCGACCTCT GGATGGCGAA TCACACAGAC 7500 ATCCACTCCT AAAGCAGACA GAGTCAAAAT GGTGTCATAA AGTGTCTCAC CCTTATTAAC 7560 CGAGCTAGTC TTCACATCAA AGTCAAGTCG TTCCAATCCA AGTTTAATCT CTGCGACTTC 7620 AAAGGACTTA TGTGTCCGTG TAGAATCCTC AAAGAAGAG TTGGAAACAA TCGGATGGTC 7680 TTCATAGGGA AGCTGGGCTC CATTTTAAA CTCAATTCCT CGCTTGATCA ATTTCATTAC 7740 TTGATCGACA GTGAGGTCTT CCATGGACAC CACATGGTTC AATGCTTGTT GATTTTCTGA 7800 CATGGCTACT CCTTTAACTT TCTAAGCTTC TTCAGTAATC AGAACTCTGT CTTGGTCATC 7860 AAGTTCTGTC ATCTCTACGA TGATTTCTTC AGAACGACTG GTTGGGATAT TTTTTCCAAC 7920 GTAATCTGGA CGGATTGGCA ATTCTCTATG TCCACGATCG ACTAGAACTG CTAAACTCAC 7980 ACGCGCAGGA CGACCATGAC CGACAATATT ATCAATAGCA GCACGGATGG TACGACCTGT 8040 ATAGAGCACA TCATCCACCA AGATAACTTC GCGGTCTGTC ACATCGACAG AAACCAAAGA 8100 AGTATCTTCT CCACTTTTAA CATCATCACG GAAAGGTTTA GTATCCAATT CCACAACAGG 8160 AACTGAAAGA TTTTCTAACT GCTTCAAACG TTCTTGGATT CGGTGGGCAA TAAAGACACC 8220 ACGAGTTTTA ATACCAGCCA AGACGATCTT ATTCAAATCT TTGTTGCGTT CGATAATCTC 8280 ATAAGTAATA CGCGTAATCG CTCGTTTGAC GGTCAATTCG TCTACAACTT CTTTTGTTTT 8340 CATGACAAAC CTCCAAAAAG AAAAGTCTCC TTAAACAAGG AGACTTGAAA TTTATAGCCA 8400 AGCGAGCCCT ACTGCACACA GTATAGACTT CACCCTTCTA CTTTATCGCG CTCCTTGCCT 8460 GCCTCACGGG ACAGGTTTAA AGGAATATTT AGTTATCATT TACTATAGCA CAAAGCATGC 8520 TTAAAATCAA GCAAAAAGTT TCAATGTAGC ATCTTACAAA TTGCTAAAAT CATATAATTG 8580 TGGGTACTGG TCACACTCTG GATTTTTTGG ATGGCAAATG GCTCTTCCAA AATAAATCAT 8640 GGCCTGATGG GCAGCTAACC ACTGCTCAGG CGGCAAGATA TCCATGACCC GCTTTTCCAC 8700 CTCAAGTGGC GTCGCTGATT TTTTGACAAT ATCGTGGTGT TTGCAAATAC GCTCCACATG 8760 AGTATCCACT GCAAAGGCTG GAATTCCAAA TCCTACACTC ATGACAACAT TGGCTGTCTT 8820 GCGACCAACA CCTGCCAAAC TCTCCAATTC TTCACGTGTC TGAGGGACTT GACCATCAAA 8880 ATCGTCTAGT AACTGTTGGG CACATTTTTT AAGGAATTTA GCTTTATTCC GATACAATCC 8940 CAAGCGAGAA ATATGTGAAG CAATCTCACT CTCTGTCGCT ACAGACATAG CTTGGGGTGT 9000 TGGAAAGGCA ACAAAGAGAC CTGGTGTGGC CTTATTTACC GCTGCATCTG TCGTCTGGGC 9060 TGATAACATG ACCGCAACCA GGAGTTCAAA ATGATTGGTA AAATCAAGAC TAGGCTTGGC 9120 ATCTGGGAAG AGGGCAATGA TTTCTTCTAG CACCTTTCGT GCTCGTTTTT TTGACAAGAC 9180

CATTATTCAT	CTCCGTCAAA	TAGTCCTTGT	AAGCCAGCAA	AAGGACTGTT	TTCTTCTTTC	9240
TTTACTGCTT	TTTGAGCTTG	GTATTCTTCC	TCTGTCATGA	TTTGCCAGTC	ATTTCCTGAG	9300
ATAAATCCTT	GACCAGCTTC	TTCTTCAGCC	GTCAAGACCT	TGATAGGAAT	GTTTAGCAGG	9360
ATATTGTCTG	ATACACTCTC	AGCAAGGTCA	AGCTCCCCAT	TTTCGATGGG	CAAGACCAAG	9420
TCATCATCTA	AAACTTCTTG	ATCTAGCTGG	TTAGTTGCGC	CTTCCATGAA	AACTTCCGTG	9480
ACTGGATAAG	ATTCAACTAA	CTCAACTGGC	TCCATACTGC	GACTCGACGC	AAGAACAATG	9540
GTATAAGATA	GTTGATAATC	TAAGAAATAC	ATACGGTCTT	CATATTGTAC	TTTCCCAACT	9600
GCAAGGATAT	CTTTTACATC	TAAAATTTCT	TGATTACGTG	CACGCAGGTC	АТСААСТААА	9660
TCTAACGTTT	GTTCAAAGTT	CAAACCTTCA	GACTGCTTAC	GAATTTCTTG	AATATTTAAT	9720
TTCATACTTC	CTCCATAAAG	ATTTACTCTC	TTGATTATAC	CATGAAAAGG	СТАСАААТСА	9780
GCACACCAAA	CTTTGTAATT	AAAATTCAAA	ATTTTAACAT	ATTTACTATG	ATAGTTTTAT	9840
TTTTTAGTGC	TATACTATAG	GGAAAGAGTA	CATCAGATCA	AGGAGGATGC	TCACATGGAA	9900
GACAAGAAAC	TCATTCAACT	CCTATCCAAG	ТТАААТАААА	GCTACCAAAA	CTGTAAACAG	9960
GGTACGGCAG	ATGATATTCG	ACTACAAGAG	CTGCTAAACA	CTACTATGCA	AGAGCTCAAA	10020
AAAACGGAAC	AGTTGAACAA	CAGTATCTTA	ATTGATCTTG	AGAAATTTTA	CCAACCTACC	10080
AGTCTTCTGA	TTGGACTGGG	TAGCCTAAAA	CTAAACGATC	AAGCACGCAC	TGCTTGGCGA	10140
AACTATGATA	AATTCCATTA	CGATCATGTC	AAACACGTAC	TAAGTCTCTA	TGGACCTGTT	10200
TTTGAATTTT	AGAGCATAGA	ATTTCCAGTT	TTCTGTTGAC	AAAATTTCCT	TAAAGGTATA	10260
ATATAAAGAT	ACTAATACTC	GGAGGTAAGG	GAGACATGAA	CAACTAAGTC	ТАТСАААТАА	10320
AGAACCTTTA	TTTAGTAGAT	CTTGTTTTTG	TCTCTTTTTG	TGTGCTCTTT	TATGCTCTTT	10380
TTCTGGCATG	TTAATAGAGT	TTTTTTGACA	TAGACTTTGG	GCTCTACTAG	GTAAAGTAGA	10440
GCTTTTTGTT	ATGCACTATG	AACATTCTAG	AAAGGGAAAT	CATATGATAA	AAATCAATCA	10500
TCTAACCATC	ACACAAAACA	AAGATTTACG	AGATCTTGTA	TCTGACCTAA	CCATGACCAT	10560
CCAAGACGGG	GAAAAGGTTG	CTATTATTGG	TGAAGAAGGA	AATGGCAAAT	CAACCTTACT	10620
TAAAATTTTA	ATGGGGGAAG	CTTTGTCTGA	TTTCACTATC	AAGGGAAACA	TCCAATCTGA	10680
CTATCAGTCA	CTGGCCTACA	TTCCTCAAAA	AGTCCCTGAG	GACCTAAAAA	AGAAAACTTT	10740
ACACGACTAC	TTCTTTTTAG	ATTCTATTGA	TTTAGACTAC	AGTATCCTCT	ATCGTTTGGC	10800
GGAGGAATTG	CATTTTGATA	GCAATCGTTT	CGCAAGTGAC	CAAGAGATTG	GCAATCTATC	10860
AGGGGGCGAA	GCTTTGAAAA	TTCAGCTTAT	CCATGAGTTA	GCCAAACCCT	TTGAGATTCT	10920

ATTTTTAGAT	GAACCTTCAA	ATGACCTAGA	788 CCTTGAGACA	GTTGATTGGC	TAAAAGGCCA	10980
GATTCAAAAG	ACCAGGCAAA	CCGTTATTTT	CATTTCCCAT	GATGAAGACT	TTCTTTCTGA	11040
AACGGCAGAC	ACTATTGTTC	ACTTGCGACT	GGTCAAACAC	CGTAAAGAAG	CGGAAACGCT	11100
AGTAGAGCAT	TTAGACTATG	ATAGCTATAG	TGAGCAGAGA	AAGGCTAATT	TTGCCAAACA	11160
AAGTCAGCAA	GCTGCTAACA	ACCAAAGAGC	CTACGATAAA	ACCATGGAAA	AACATCGGAG	11220
AGTTAAGCAA	AATGTAGAAA	CTGCGCTTCG	AGCTACCAAA	GATAGTACTG	CCGGTCGCCT	11280
ATTGGCTAAA	AAGATGAAAA	CTGTCCTCTC	ACAAGAAAAA	CGCTACGAAA	AGGCAGCTCA	11340
GTCCATGACT	CAAAAGCCAC	TTGAAGAGGA	ACAAATCCAA	CTTTTCTTTT	CAGACATCCA	11400
ACCATTACCA	GCTTCTAAAG	TCTTAGTCCA	ACTGGAAAAA	GAAAATTTGT	CCATTGACGA	11460
CCGAGTTTTG	GTTCAAAAAC	TACAACTAAC	TGTCCGTGGC	CAAGAAAAA	TCGGTATTAT	11520
CGGGCCAAAT	GGTGTTGGGA	AATCAACTCT	GTTAGCCAAG	TTACAGAGAC	TTCTGAATGA	11580
TAAAAGAGAG	ATTTCACTTG	GTTTTATGCC	ACAAGATTAC	CACAAAAAAC	TGCAATTGGA	11640
TTTATCCCCA	ATAGCCTATC	TCAGTAAAAC	TGGGGAAAAA	GAGGAACTAC	AGAAAATCCA	11700
ATCTCACCTA	GCTAGTCTCA	ATTTCAGTTA	TCCAGAAATG	CAGCATCAAA	TTCGCTCCTT	11760
ATCTGGCGGA	CAACAGGGAA	AACTCCTGCT	TTTGGATTTA	GTCCTGCGCA	AACCAAACTT	11820
TCTCCTGCTG	GATGAACCCA	CACGAAACTT	TTCTCCCACT	TCTCAACCCC	AAATCAGAAA	11880
ACTCTTTGCT	ACCTATCCAG	GCGGTCTCAT	CACTGTTTCG	CATGACCGTC	GTTTCTTAAA	11940
AGAAGTCTGC	TCGATCATCT	ATCGCATGAC	AGAACACGGT	TTGAAGCTAG	TTAATTTAGA	12000
AGATTTATAA	ATTTGCAACA	TAGCAAAAAT	CCAGAGACGA	CCTCTGGATT	CTTTTACATC	12060
TGTTTTAAAC	GTTCAATCCG	TTCTGAGATA	GGTGGGTGGG	TATAAAAGAG	TTTTTGGAAC	12120
CCCCCACCTT	TCTTAGGATC	ATTGATATAA	AGGGCACTGC	TAGCATCATC	GACGTGGCGA	12180
CTCATAGGTT	TGCTATTGTC	CAACTTATCT	AGGGCATTAA	TCATTCCCTG	GGGATTGCGA	12240
GTCAGCTCGA	CACTAGATGC	ATCTGCCAGA	AATTCCCTCT	GACGAGAAAT	AGCGAGCTGA	12300
ACCAAGGTTG	CAGCGAGAGG	TGCCAGTACA	ATAGCTAGTA	GGGAAACCAC	TAGCATAATG	12360
ATTTCAAGAC	CATTTCCATC	TCGGTCATCA	TCACTTCGTC	TGCGACCTGC	TCCACCCCAC	12420
CACATCATAC	GACCTGCCAT	ACTAGAAAGC	ATGGTGATAG	CACTAGCAAG	GGCAACTGCA	12480
ATAGTCGAAA	TACGGATATC	ATAATTACGA	ATATGACTGA	CTTCATGTCC	CATAACAGCT	12540
TCTAGTTCTT	CACGATTCAT	GATAGCTAGT	AGACCTGAAG	TCGCAGCAAC	AGCCGCATTT	12600
TGAGGATTAG	AACCTGTCGC	AAAGGCATTT	AAGGCTGGAT	CATCAATGAT	GAAAACACGG	12660
GGCATAGGAA	TCTGAGCGAC	CAGAGCCATA	TCTTCCACTA	CATGGTAGAG	GTCTGGTGCC	12720

GTTTGCTCAT	CCACCTCACG	CGCTCCATTC	ATGGACATGA	CAATCTCTGT	CGATTGAAAA	12780
ATCATAGACA	AAGCGTAGAT	AAAGCCGATA	ATCAGTGCAA	TAACCAAACC	ACCAAGTCCA	12840
GATCTTATAA	AGAGATAACC	AACCGCATAA	CCAACAAGAG	CTAAGAGTAG	GAAAAATACC	12900
AGCAACAAAA	TCCAGGTTTT	TCGTTTATTG	CTTGCAATTT	GATCAAACAA	CATCTTAGTC	12960
ACCTAAACCG	СТААААТСАА	CTTTAGGAAC	CGACTTTTCC	TCTTCAGGTG	TTTGAAGGAA	13020
ATCTGCCGCT	ТТАААТССАА	ACATTCCAGC	GATAATATTG	CTCGGGAAAG	TTTCTAATTT	13080
TACATTGTAG	TTGCTGACAA	CACTGTTATA	GAGTTGACGA	GAGTAAGAAA	TTTTATTTTC	13140
TGTGTTTGTC	AACTCCTCTT	GCAATTTAAC	AAAGTTAGCA	CTAGCTTTCA	AATCTGGATA	13200
GCTTTCTGCA	ACTGCAAAAA	TACCTGAAAC	CTGACGAGTG	AGGGCATCAC	TGGCTTTCAT	13260
AGCTTCTGCT	GGTGAAGTCG	CTGCCGCCAC	TTGGTTACGT	AGTTCTGCCA	CCTTTTCAAG	13320
GGTAGAACCT	TCATATTTGG	CATAACCTTT	TACAGTCTCA	ATCAAGTTTG	GCAAGAGGTC	13380
ATTGCGACGT	TTCAACTGAA	CATCAATCTG	ACTCCAAGCC	TCCTTGGTTT	GCATACGATT	13440
TTTAACCAAA	CCGTTATAGC	TAACAATCAC	AAAAATAACA	ATAAGAGCGA	TAACTCCAAG	13500
AATAATCCAA	GTCATAATAT	AAGTCCTTTC	TGCTTTTAGA	TTAGTACCAG	TATATCAAAT	13560
TTTCTATGAT	TGTGGTAAAA	TAAGATGATA	CTAAAGAAGG	AAATAACTAT	GAAACCAAAA	13620
ACATTTTACA	ACTTGCTTGC	CGAGCAGAAT	CTTCCACTTT	CGGACCAGCA	AAAAGAACAA	13680
TTTGAACGTT	ATTTTGAGCT	CTTGGTCGAG	TGGAATGAGA	AGATTAATTT	GACGGCGATT	13740
ACGGACAAGG	AAGAAGTTTA	TCTCAAACAT	TTTTACGATT	CGATTGCACC	CATTCTTCAA	13800
GGTTTGATTC	CCAATGAAAC	TATCAAACTT	CTTGATATCG	GGGCTGGGGC	AGGATTTCCT	13860
AGTCTACCAA	TGAAAATTCT	CTATCCGGAG	TTAGATGTGA	CCATTATTGA	TTCACTCAAT	13920
AAGCGCATCA	ACTTCCTACA	ACTCTTGGCT	CAAGAACTGG	ATTTGAACGG	AGTTCATTTC	13980
TACCACGGAC	GTGCCGAAGA	TTTTGCCCAA	GACAAGAACT	TCCGTGCTCA	ATATGATTTT	14040
GTAACAGCTC	GTGCGGTTGC	CCGTATGCAG	GTCCTATCTG	AATTGACTAT	TCCCTACCTT	14100
AAGGTTGGTG	GCAAACTATT	AGCACTCAAG	GCTAGCAATG	CGCCTGAGGA	ATTATTAGAA	14160
GCTAAGAATG	CCCTCAATCT	CCTTTTTAGT	AAGGTCGAAG	ACAATCTCAG	TACGCCCTAC	14220
CGAATAGAGA	TCCGCGCTAT	ATCACAGTGG	TAGAAAAGAA	AAAAGAAACA	ССАААТАААТ	14280
ATCCACGTAA	GGCTGGTATG	ССАААТАААС	GCCCACTTTA	AATTTTTTAG	TAAACAAATG	14340
TTTACAAAAT	CAGCCTCGCT	CTTTTATTTC	TAGGCTCGGG	AAAAAATGAT	TTACAAAATC	14400
AGCCTCGCTC	TTTTATTTCT	AGGCTCGGGA	AAAAATGATT	TACAAAATCA	TTTTTTTCTG	14460

			790			
CTATACTATC	CTAAGCAAAG	GTTTTTAATG	TCATCCCGTG	AGGTGACGAA	GACGCAGAAA	14520
TATTTAAAAC	TCTTTAAAAT	CTAAATTTTA	AAGAAGTCTT	ACTCTGAGGG	CCTATTGCTG	14580
TAAAATAATG	GGCTCTTTTT	TGATGCCCAA	AAGTGAGGTT	TATATGAAAC	AAGAATCAAC	14640
TGTTGATTTG	TTAC					14654

## (2) INFORMATION FOR SEQ ID NO: 107:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 6405 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 107:

	AGAAAAATCT	GCTTTACAGA	АААТААААТ	AATAGGAGAA	AATCTATGTC	AGATTTGAAA	60
	AAATACGAAG	GTGTCATTCC	AGCCTTCTAC	GCATGTTATG	ATGATCAAGG	AGAAGTAAGC	120
	CCAGAACGTA	CGCGTGCCTT	GGTTCAATAC	TTCATTGATA	AAGGTGTTCA	AGGTCTTTAT	180
,	GTCAATGGTT	CTTCTGGTGA	ATGTATCTAC	CAAAGCGTTG	AAGATCGCAA	GTTGATTTTG	240
,	GAAGAAGTCA	TGGCGGTAGC	AAAGGTAAAT	TGACCATTAT	TGCCCATGTT	GCTTGCAATA	300
	ATACTAAAGA	TAGTATGGAA	CTTGCTCGCC	ATGCTGAAAG	CTTGGGAGTA	GATGCTATTG	360
	CAACGATTCC	ACCAATTTAT	TTCCGCTTGC	CAGAATACTC	AGTTGCCAAA	TACTGGAACG	420
	ATATCAGTTC	TGCAGCTCCA	AACACAGACT	ACGTGATTTA	CAACATTCCT	CAATTGGCAG	480
	GGGTTGCTTT	GACTCCAAGC	CTTTACACAG	AAATGTTGAA	AAATCCTCGT	GTTATCGGTG	540
	TGAAGAACTC	TTCTATGCCA	GTTCAAGATA	TCCAAACCTT	TGTCAGCCTT	GGTGGAGAAG	600
	ACCATATCGT	CTTTAATGGT	CCTGATGAGC	AGTTCCTAGG	AGGACGCCTC	ATGGGGGCTA	660
	GGGCTGGTAT	CGGTGGTACT	TATGGTGCTA	TGCCAGAACT	CTTCTTGAAA	CTCAATCAGT	720
	TGATTGCGGA	TAAGGACCTA	GAAACAGCGC	GTGAATTGCA	GTATGCTATC	AACGCAATCA	780
	TTGGTAAACT	CACTTCTGCT	CATGGAAATA	TGTACGGTGT	CATCAAAGAA	GTCTTGAAAA	840
	TCAATGAAGG	CTTGAATATT	GGATCTGTTC	GTTCACCATT	GACACCAGTG	ACTGAAGAAG	900
	ATCGTCCAGT	TGTAGAAGCG	GCTGCTGCCT	TGATTCGTGA	AACCAAGGAG	CGCTTCCTCT	960
	AATCTAAAAG	GAGGTATTTA	TGACATATTA	CGTTGCAATT	GATATCGGTG	GAACCAACAT	1020
	CAAGTATGGT	TTGGTTGATC	AAGAGGGGCA	ACTTCTTGAA	TCGCATGAAA	TGCCAACTGA	1080
•	GGCGCATAAG	GGTGGACCTC	ATATCTTACA	AAAGACCAAA	GATATCGTAG	CTAGTTATTT	1140
	AGAAAAAGGC	CCAGTAGCAG	GTGTTGCCAT	ATCTTCTGCT	GGGATGGTGG	ATCCGGATAA	1200

GGGTGAGATT	TTCTATGCTG	GGCCGCAAAT	CCCTAACTAC	GCAGGCACCC	AGTTCAAAAA	1260
GGAAATCGAA	GAAAGCTTTA	CTATTCCTTG	TGAGATTGAA	AATGATGTCA	ACTGTGCAGG	1320
TCTTGCTGAG	GCAGTATCTG	GTTCAGGCAA	GGGAGCAAGT	GTGACACTTT	GCTTGACCAT	1380
TGGAACCGGT	ATCGGTGGTT	GCTTGATTAT	GGATAGGAAA	GTCTTCCATG	GTTTTAGCAA	1440
TTCAGCCTGT	GAAGTCGGGT	ATATGCATAT	GCAGGATGGA	GCTTTTCAAG	ACTTGGCTTC	1500
TACAACAGCT	TTAGTGAAAT	ATGTAGCTGA	AGCCCATGGA	GAAGATGTTG	ATCAGTGGAA	1560
TGGCCGTAGA	ATTTTCAAAG	AAGCCACTGA	AGGAAACAAA	ATCTGCATGG	AAGGTATTGA	1620
CCGTATGGTT	GACTATCTAG	GAAAAGGTCT	GGCAAATATT	TGCTACGTTG	CCAATCCAGA	1680
AGTGGTTATT	CTTGGTGGTG	GTATCATGGG	GCAAGAGGCT	ATCCTCAAAC	CTAAGATCCG	1740
TACAGCCTTG	AAAGAGGCTT	TGGTACCAAG	TTTAGCAGAA	AAAACACGAT	TAGAATTTGC	1800
CCATCACCAA	AATACAGCAG	GGATGTTGGG	TGCATATTAT	CATTTTAAGA	CAAAACAATC	1860
CTAGTTTGGC	TCAGCCAAAC	TAGGATTTTC	TTACACGTTT	TTGTCTACGA	TAGCCGTTGA	1920
GTTTTTTATT	TTCCCAGTAG	CTATTAAAGA	TTTTTTCCTT	GCTTTCGCGA	TTGATTTCCA	1980
AAAAGTAGGC	ATAAATCAAA	TCGATAAAGA	AGAGCATAGG	AAGTTGAGCG	GATATTCGTT	2040
GGATATAGGA	GGGTTGGCTG	TGGGTGGCTA	CAAGAACAGT	CTCTGTATAG	GTCTGGCTAT	2100
CTTTATTGGG	AACACTTGTA	AAGAGTACAG	TCTTTGCCCC	CATCTCCTTA	GCATCTAATA	2160
GACTATCTAA	AATAGAAGGA	GTTGAGCCTG	AAAGTGAGAA	GCCCAGTACT	AGACAATTTT	2220
CATCCATGAT	GCTGGTTGTC	CAGGCAAAGC	CGTCTTGGTC	TGTCAAAGCT	TCGCAGACCA	2280
CACCTAGTCG	CATAAAACGT	AATTTCATTT	CACGGGCGAC	GAGGCCAGAA	CTCCCTGTTC	2340
CAAAGAAGTA	GATACGCTCA	GCATCTTCGA	TTAGCTGGGC	AATTCGTTCT	AGTTGGATTT	2400
CGTCAATCAA	GTCTTGTGTT	TGTTCCCTCA	TATTGCTATA	ACTTCTGAGG	ACTCGTTTGG	2460
TCAGTGGACT	GTGCTTGGAG	ACTTGGTTGG	CTTGATTTTC	TGCCTGATGT	TGGTATTGGA	2520
AAATAAATTC	TCGGTAGCCA	GTAAAGCCAC	ACTTTTTAGC	AAAGCGGGTC	AAAGCAGCTT	2580
GAGAAATATG	TAATTTTTGG	GTGACTTGTT	GAGAAGATAA	ATCATCTGTA	ATCGTTTCAG	2640
CTTGCAAAAA	ATAGCGAGCG	ATTTCTTGTT	CTAGGTCTGT	CATTTCTTCA	AAATGTGAAT	2700
CAATGATAGT	TGCGATATCT	GGTTTGTCCA	TAGGGAAAGC	TCCTTTACAT	GAGTCATACT	2760
GGAAGACTAG	ATCAGAGAAT	AGTCACACTT	CATTATAACA	CATAATATAA	GGATAGATAA	2820
ATAAAAACGC	ATCTCTGTTT	TAAAAACGAA	AAAATCGAAA	AAGCTTCTCT	CTTTTCCATA	2880
ATTTTCTACT	CAAATTGTGG	TACAATTAAG	AGTAAGATTT	TAAGTTAGAA	ATGAGACTGA	2940

792 TTTGTATGAG AAAATTTAAC AGCCATTCGA TTCCGATTCG GCTTAATTTA TTGTTTTCAA 3000 TCGTCATTTT ACTCTTTATG ACCATTATTG GTCGTTTGTT GTATATGCAG GTTTTGAACA 3060 AGGATTTTTA CGAAAAAAG CTAGCTTCAG CTAGTCAGAC CAAGATTACA AGCAGTTCAG 3120 CCCGTGGGGA AATTTATGAT GCTAGTGGAA AACCTTTGGT AGAAAATACG TTAAAGCAGG 3180 TTGTTTCCTT TACGCGTAGC AATAAAATGA CGGCTACAGA CTTAAAAGAA ACAGCTAAAA 3240 AGTTACTGAC TTATGTGAGC ATCAGTTCTC CAAATTTGAC AGAACGCCAG CTGGCGGATT 3300 ACTATTTGGC TGATCCTGAA ATCTATAAAA AAATAGTGGA AGCTCTCCCA AGTGAGAAAC 3360 GCTTGGATTC AGATGGCAAT CGTCTATCCG AATCAGAACT GTATAACAAT GCGGTCGATA 3420 GTGTACAAAC GAGTCAACTA AACTATACAG AGGATGAAAA GAAAGAAATC TATCTTTTTA 3480 GTCAGTTAAA TGCTGTTGGA AACTTTGCGA CAGGAACCAT TGCGACAGAT CCTCTAAATG 3540 ATTCTCAGGT GGCTGTTATT GCCTCTATTT CAAAGGAGAT GCCTGGCATT AGTATTTCTA 3600 CTTCTTGGGA TAGAAAGGTT TTGGAAACTT CCCTTTCTTC TATAGTTGGG AGTGTATCCA 3660 GTGAAAAAGC TGGTCTCCCA GCGGAAGAAG CAGAAGCCTA TCTTAAAAAA GGCTATTCTC 3720 TAAATGACCG TGTAGGAACC TCCTATTTGG AAAAGCAATA TGAAGAGACC TTACAAGGAA 3780 AACGCTCGGT AAAAGAAATC CATCTGGATA AATATGGCAA TATGGAAAGC GTGGATACAA 3840 TTGAGGAAGG TAGTAAGGGA AACAATATCA AACTGACCAT TGATTTGGCT TTCCAAGATA 3900 GCGTGGATGC TTTACTGAAA AGTTATTTCA ATTCTGAGCT AGAAAATGGT GGAGCCAAGT 3960 ATTCTGAAGG TGTCTATGCA GTCGCCCTTA ACCCAAAAAC AGGTGCGGTT TTGTCTATGT 4020 CAGGGATTAA ACATGACTTG AAAACGGGAG AGTTGACGCC TGATTCCTTG GGAACGGTAA 4080 CCAATGTCTT TGTTCCAGGT TCGGTTGTCA AGGCGGCGAC CATCAGCTCA GGTTGGGAAA 4140 ATGGAGTCTT GTCAGGAAAC CAGACCTTGA CAGACCAGTC CATTGTCTTC CAAGGTTCAG 4200 CTCCCATCAA TTCTTGGTAT ACTCAGGCTT ACGGTTCATT CCCTATCACA GCGGTCCAAG 4260 CTCTGGAGTA TTCATCAAAT ACCTATATGG TCCAAACAGC CTTAGGTCTT ATGGGGCAAA 4320 CCTATCAACC CAATATGTTT GTCGGCACCA GCAATCTAGA GTCTGCTATG GAGAAACTGC 4380 GTTCAACCTT TGGCGAATAT GGCTTGGGTA CTGCGACAGG AATTGACCTA CCAGATGAAT 4440 CTACTGGATT TGTTCCCAAA GAGTATAGCT TTGCTAATTA CATTACTAAT GCCTTTGGGC 4500 AGTTTGATAA CTATACGCCG ATGCAGTTGG CTCAGTATGT AGCAACTATT GCAAATAATG 4560 GTGTTCGTGT GGCTCCTCGT ATTGTTGAAG GCATTTATGG TAATAATGAT AAGGGAGGAC 4620 TGGGTGACTT GATTCAGCAA CTGCAACCGA CAGAGATGAA TAAGGTCAAT ATATCCGACT 4680 CCGATATGAG CATCTTGCAC CAAGGTTTTT ATCAGGTTGC CCATGGTACT AGTGGATTGA 4740

CAACTGGACG	TGCCTTTTCA	AATGGTGCCT	TGGTATCCAT	TAGCGGAAAA	ACAGGTACAG	4800
CCGAAAGCTA	TGTGGCAGAT	GGTCAGCAAG	CAACCAATAC	CAATGCGGTG	GCCTATGCCC	4860
CATCTGATAA	TCCCCAAATC	GCTGTCGCAG	TGGTCTTTCC	TCATAATACC	AATCTAACAA	4920
ATGGTGTAGG	ACCTTCCATT	GCGCGTGACA	TTATCAATCT	GTATCAAAAA	TACCATCCAA	4980
TGAATTAGAA	AGGAAATTAT	GCTTTATCCA	ACACCTATTG	CCAAGTTGAT	TGACAGTTAT	5040
TCTAAGTTAC	CAGGTATCGG	GATTAAGACG	GCTACGCGTC	TGGCCTTTTA	TACGATTGGG	5100
ATGTCTGCTG	ATGATGTCAA	TGAATTTGCA	AAAAATCTCC	TTTCTGCTAA	GAGAGAATTG	5160
ACATATTGTT	CTATTTGTGG	ACGTTTGACA	GACGACGATC	CTTGTTCTAT	CTGTACTGAT	5220
CCGACTCGTG	ACCAGACAAC	AATTTTAGTT	CTTGAGGATA	GTAGAGATGT	GGCAGCCATG	5280
GAAAATATCC	AAGAATACCA	TGGACTCTAT	CATGTCCTTC	ATGGCCTCAT	TTCTCCTATG	5340
AATGGTATCA	GTCCGGACGA	TATCAATCTC	AAGAGCCTTA	TGACTCGTCT	TATGGATAGT	5400
GAGGTTTCAG	AAGTGATTGT	GGCGACTAAT	GCTACAGCGG	ATGGTGAAGC	GACTTCCATG	5460
TATCTTTCAC	GTTTGCTCAA	GCCGGCTGGT	ATCAAGGTTA	CGCGTCTAGC	ACGAGGTCTC	5520
GCTGTGGGAG	CGGACATTGA	GTATGCGGAC	GAAGTGACAC	TCTTACGAGC	CATTGAAAAT	5580
CGGACAGAGT	TGTAAGTGTA	GGCAAATTTA	CGAACTCCAT	TCATTTATAA	AAAATCAAAG	5640
AGGCTGAAAA	TCGTTCCTAT	CGGCCTCTTT	TTGTATAGTG	TGATGAGTAG	GCTCAGGTTC	5700
AAGTTTTAAA	AAACCAAGCA	AATATGATAT	ACTAAAGAGC	GAGTATTCTA	GTAGAATTAG	5760
GACAAATAAT	ATGAAACAAA	CGATTATTCT	TTTATATGGT	GGACGGAGTG	CGGAACGCGA	5820
AGTCTCTGTC	CTTTCAGCTG	AGAGTGTCAT	GCGTGCGGTC	GATTACGACC	GTTTCACAGT	5880
CAAGACTTTC	TTTATCAGTC	AGTCAGGTGA	CTTTATCAAA	ACACAGGAAT	TTAGTCATGC	5940
TCCGGGGCAA	GAAGACCGTC	TCATGACCAA	TGAAACCATT	GATTGGGATA	AGAAAGTTGC	6000
ACCAAGTGCT	ATCTACGAAG	AAGGTGCAGT	GGTCTTTCCA	GTCCTTCACG	GGCCAATGGG	6060
AGAAGATGGC	TCTGTTCAAG	GATTCTTGGA	AGTTTTGAAA	ATGCCTTACG	TTGGTTGCAA	6120
CATTTTGTCA	TCAAGTCTTG	CCATGGATAA	AATCACGACT	AAGCGTGTTC	TGGAATCTGC	6180
TGGTATTGCC	CAAGTTCCTT	ATGTGGCTAT	CGTTGAAGGC	GATGATGTGA	CTGCTAAAAT	6240
CGCTGAAGTG	GAAGAAAAT	TGGCTTATCC	AGTCTTCACT	AAGCCGTCAA	ACATGGGGTC	6300
TAGTGTCGGT	ATTTCTAAGT	CTGAAAACCA	AGAAGAACTC	CGTCAAGCCT	TAAAACTTGC	6360
CTTCCGATAT	GACAGCCGTG	TCTTGGTTGA	GCAAGGAGTG	AATGC		6405

(2) INFORMATION FOR SEQ ID NO: 108:

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(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 11309 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 108:

CGAGCTCGGG	TACCGGGATT	TTAAGGAGTT	TGATATGTAT	AACCTATTAT	TAACCATTTT	60
ATTAGTATTA	TCTGTTGTGA	TTGTGATTGC	AATTTTCATG	CAACCAACCA	AAAACCAATC	120
CAGCAATGTA	TTTGATGCCA	GTTCAGGTGA	TTTGTTTGAA	CGCAGTAAAG	CTCGCGGTTT	180
TGAAGCTGTA	ATGCAGCGTT	TGACAGGGAT	TTTAGTCTTT	TTCTGGCTAG	CCATTGCCTT	240
AGCATTGACG	GTATTATCAA	GTAGATAAGA	AAATAATGGG	CAGGACTAGG	TCTTTGCCTC	300
TTTTTATTT	TAAAGGATGT	TTGAGAAGGT	TTTACAGTAA	AAGAAAATTA	AAAAATCTAG	360
AAAGAAAATA	TGAAAGATAG	AATAAAAGAA	TATTTACAAG	ACAAGGGAAA	GGTGACTGTT	420
AATGATTTGG	CTCAGGCTTT	GGGAAAAGAC	AGTTCCAAGG	ATTTTCGTGA	GTTGATTAAA	480
ACCTTGTCCT	TAATGGAAAG	AAAGCACCAA	ATTCGTTTTG	AAGAAGATGG	TAGTCTGACA	540
TTAGAAATTA	AGAAAAAACA	TGAGATTACC	CTCAAGGGGA	TTTTTCATGC	CCATAAAAAT	600
GGCTTTGGCT	TTGTTAGTCT	GGAAGGCGAG	GAGGACGACC	TTTTTGTAGG	GAAAAATGAT	660
GTCAACTATG	CTATTGATGG	TGATACCGTC	GAGGTAGTGA	TTAAGAAAGT	CGCTGACCGC	720
AATAAGGGAA	CAGCAGCAGA	AGCCAAAATT	ATTGATATCC	TAGAACACAG	TTTGACAACA	780
GTTGTCGGGC	AAATCGTTCT	GGATCAGGAA	AAACCTAAGT	ATGCTGGCTA	TATTCGTTCA	840
AAAAATCAGA	AAATCAGTCA	ACCGATTTAT	GTTAAGAAAC	CAGCCCTAAA	ATTAGAAGGA	900
ACAGAAGTTC	TCAAAGTCTT	TATCGATAAA	TACCCAAGCA	AGAAACATGA	TTTCTTTGTC	960
GCGAGTGTTC	TCGATGTAGT	GGGACACTCA	ACGGATGTCG	GAATTGATGT	TCTTGAGGTC	1020
TTGGAATCAA	TGGACATTGT	ATCCGAGTTT	CCAGAAGCTG	TTGTTAAGGA	AGCAGAAAGT	1080
GTGCCTGATG	CTCCGTCTCA	AAAGGATATG	GAAGGTCGTC	TGGATCTAAG	AGATGAAATT	1140
ACCTTTACCA	TTGACGGTGC	GGATGCCAAG	GACTTGGACG	ATGCAGTGCA	TATCAAGGCT	1200
CTGAAAAATG	GCAATCTGGA	GTTTGGGGTT	CACATCGCAG	ATGTTTCTTA	TTATGTGACC	1260
GAGGGGTCTG	CCCTTGACAA	GGAAGCCCTT	AACCGTGCGA	CTTCTGTTTA	CGTGACAGAC	1320
CGAGTGGTGC	CAATGCTTCC	AGAACGACTA	TCAAATGGCA	TCTGCTCTCT	CAATCCCCAA	1380
GTTGACCGCC	TGACCCAGTC	TGCTATTATG	GAGATTGATA	AACATGGTCG	TGTGGTCAAC	1440
TATACCATTA	CACAAACAGT	TATCAAGACC	AGTTTTCGTA	TGACCTATAG	CGATGTCAAT	1500

GATATCCTAG	CTGGCGATGA	AGAAAAGAGA	AAAGAATATC	ATAAAATTGT	ATCAAGTATC	1560
GAACTCATGG	CCAAGCTTCA	TGAAACTTTA	GAAAACATGC	GTGTGAAACG	TGGAGCTCTC	1620
AATTTTGATA	CCAATGAAGC	GAAGATTTTA	GTGGATAAAC	AAGGTAAGCC	TGTTGATATC	1680
GTTCTTCGGC	AGCGTGGTAT	TGCCGAGCGG	ATGATTGAGT	CTTTTATGTT	GATGGCTAAT	1740
GAAACAGTTG	CCGAACATTT	CAGCAAGTTG	GATTTGCCTT	TTATCTATCG	AATTCACGAG	1800
GAGCCTAAGG	CTGAAAAGGT	TCAGAAGTTT	ATTGATTATG	CTTCGAGTTT	TGGCTTGCGC	1860
ATTTATGGAA	CTGCCAGTGA	GATTAGTCAG	GAGGCACTTC	AAGACATCAT	GCGTGCTGTT	1920
GAGGGAGAAC	CTTATGCAGA	TGTATTGTCC	ATGATGCTTC	TTCGCTCTAT	GCAGCAGGCT	1980
CGTTATTCGG	AGCACAATCA	CGGCCACTAT	GGACTAGCTG	CTGACTATTA	TACTCACTTT	2040
ACCAGTCCAA	TTCGTCGTTA	TCCAGACCTT	CTTGTTCACC	GTATGATTCG	GGATTACGGC	2100
CGTTCTAAGG	AAATAGCAGA	GCATTTTGAA	CAAGTGATTC	CAGAGATTGC	GACCCAGTCT	2160
TCCAACCGTG	AACGTCGTGC	CATAGAAGCT	GAGCGTGAAG	TCGAAGCCAT	GAAAAAGGCT	2220
GAGTATATGG	AAGAATACGT	GGGTGAAGAG	TATGATGCAG	TTGTATCAAG	TATTGTCAAA	2280
TTCGGTCTCT	TTGTCGAATT	GCCAAACACA	GTTGAAGGCT	TGATTCACAT	CACTAATCTG	2340
CCTGAATTTT	ATCATTTCAA	TGAGCGTGAT	TTGACTCTTC	GTGGAGAAAA	ATCAGGTATC	2400
ACTTTCCGAG	TGGGTCAGCA	GATCCGTATC	CGTGTTGAAA	GAGCGGATAA	AATGACTGGA	2460
GAGATTGATT	TTTCATTCGT	ACCTAGTGAG	TTTGATGTGA	TTGAAAAAGG	CTTGAAACAG	2520
TCTAGTCGTA	GTGGCAGAGG	GCGTGATTCA	AATCGTCGTT	CGGATAAGAA	GGAAGACAAG	2580
AGAAAATCAG	GACGCTCAAA	TGATAAGCGT	AAGCATTCAC	AAAAAGACAA	GAAGAAAAA	2640
GGAAAGAAAC	CTTTTTACAA	GGAAGTAGCT	AAGAAAGGAG	CCAAGCATGG	CAAAGGGCGA	2700
GGGAAAGGTC	GTCGCACAAA	ATAAAAAGGC	ACGCCACGAC	TATACAATCG	TAGATACGCT	2760
AGAGGCAGGG	ATGGTCCTGA	CTGGAACTGA	AATCAAGAGT	GTACGAGCTG	CTCGAATTAA	2820
TCTCAAGGAT	GGCTTTGCTC	AAGTGAAAAA	TGGAGAAGTT	TGGCTGAGCA	ATGTTCATAT	2880
CGCGCCTTAC	GAAGAGGCA	ATATCTGGAA	CCAGGAACCA	GAACGTCGTC	GTAAACTCCT	2940
GCTCCATAAA	AAGCAAATTC	AAAAATTGGA	ACAAGAGATC	AAAGGGACAG	GAATGACCTT	3000
AGTTCCCCTT	AAGGTCTATA	TAAAAGATGG	CTACGCTAAG	CTTCTTTTAG	GACTTGCCAA	3060
AGGGAAGCAT	GACTATGACA	AACGGGAGTC	TATCAAACGT	CGTGAGCAAA	ATCGAGATAT	3120
CGCGCGTGTG	ATGAAAGCTG	TTAATCAGCG	ATAAAAAGAG	GAATTGAAAA	TGGAAAAATT	3180
AGTTGCCTAT	AAACGCATGC	CTTTGTGGAA	TAAACAAACA	ATGCCTGAAG	CTGTTCAGCA	3240

AAAGCACAAT	ACAAAAGTTG	GGACTTGGGG	796 GAAAATTACT	GTCTTGAAGG	GAGCTCTCAA	3300
			TCTAGCTGAA			3360
			GCACCGAGTG			3420
			TGAGGATTAT			
						3480
			CATGCAGACA			3540
			TCTTTTTCTA			3600
GACGGCTGTA	GATCAAAATG	GACTAGCTCT	TGAAATCTTG	CAAAGCATTG	TGGAGCAGGA	3660
AGATTTGGAC	ATGCCTGTTG	GCCTTTACGA	TATCAATTCA	GCTAGCATTG	AACAAGAATA	3720
TGATTTTATC	GTTTCAACAG	TTGTTCTCAT	GTTTCTACAA	GCGGACCGCA	TTCCAGCTAT	3780
TATTCAAAAT	ATGCAGGAGA	AAACCAGTGT	TGGTGGTTAC	AACCTTATCG	TTTGTGCCAT	3840
GGACACGGAG	GATTATCCTT	GCTCGGTTAA	CTTCCCATTC	ACCTTTAAAG	AAGGAGAACT	3900
GGCAGACTAT	TACAAGGATT	GGGAATTGGT	TAAGTACAAT	GAAAATCCAG	GCCATTTGCA	3960
CCGTCGCGAT	GAGAATGGCA	ATCGTATTCA	ACTACGCTTT	GCGACCTTAC	TAGCTAAGAA	4020
AATCAAGTAA	ACACACATGA	AGATTAGGAA	TTTTCCTGAT	CTTTTTTCTT	TTTTACGAAT	4080
GATATAGAAA	AGGAGGGAAT	TCATGTTTGT	TGCGAGAGAT	GCTAGGGGAG	AATTGGTAAA	4140
TGTGTTAGAG	GATAAACTTG	AGAAGCAAGC	ATACACCTGC	CCAGCTTGTG	GAGGCCAGCT	4200
CCATTTGCGT	CAAGGACCAA	GTGTACGGAC	GCATTTTGCC	CATAAATCCT	TAAAAGACTG	4260
TGATTTTTTC	TTTGAAAATG	AAAGTCCAGA	ACACCTGGCC	AATAAGGAAT	CCCTCTATCA	4320
CTGGTTGAAA	AAAGAGACAA	AGGTTCAATT	AGAGTACCCG	CTTTCAGAAC	TTAAACAGAT	4380
TGCGGATGTA	TTTGTAAATG	GCAATCTAGC	TCTAGAAGTT	CAGTGTAGTC	CCTTGCCTCA	4440
GAAAGTCCTT	AAAGAGCGAA	GTGAGGGCTA	TCGTAGTCAG	GGTTACCAAG	TACTGTGGTT	4500
GCTGGGTCAA	AAACTGTGGC	TCAAGGAGCG	TTTGACTCGT	CTACAGCAAG	GTTTTCTTTA	4560
TTTCAGTCAA	AACATGGGCT	TTTATGTTTG	GGAATTAGAC	AAGGAAAAAC	AAGTTTTAAG	4620
ACTCAAATAC	CTGATTTACC	AGGATCTCCG	CGGTAAACTC	CATTATCAAA	TCAAGGAATT	4680
TTCCTATGGT	CAAGGTAGTT	TATTGGAAAT	ATTGCGTCTT	CCCTATAAGA	GACAAAAAAT	4740
ATCTCATTTT	ACAGTTTCTG	AGGACAAGGA	CATCTGTCGC	TATATCCGGC	AACAACTTTA	4800
ТТАТСААААТ	CTCTTTTGGA	TGAAAGAACA	AGCAGAAGCC	TATCAAAAGG	GAGAAAATAT	4860
			ACAAATTCGA			4920
			TCAGCACTTT			4980
			ACCAGCCTTT			
ICCICAAAAI	GALLGGCMAA	AGCTTTATCC	ACCAGCCTTT	TATCAGCAAT	ATTTCTTGAA	5040

AAATATGGTA	GAATAGAAAG	GATGGAGGAA	TCTAATGGTA	TTACAAAGAA	ATGAAATAAA	5100
TGAAAAAGAT	ACATGGGATC	TATCAACGAT	CTACCCAACT	GACCAGGCTT	GGGAAGAAGC	5160
CTTAAAAGAT	TTAACAGAAC	AATTGGAGAC	AGTAGCCCAG	TATGAAGGCC	ATCTCTTGGA	5220
TAGTGCGGAT	AACCTACTAG	AAATCACTGA	ATTTTCTCTT	GAAATGGAAC	GCCAGATAGA	5280
GAAGCTTTAC	GCTTATGCTC	ATATGAAGAA	TGACCAGGAT	ACACGTGAAG	CTAAGTATCA	5340
AGAGTACTAT	GCCAAGGCCA	TGACACTCTA	CAGCCAGTTA	GACCAAGCCT	TTTCATTCTA	5400
TGAGCCTGAA	TTTATGGAGA	TTAGCGAAAA	GCAGTATGCT	GACTTTTTAG	AAGCTCAACC	5460
AAAGCTGCAG	GTTTATCAAC	ACTATTTTGA	CAAGCTTTTG	CAAGGCAAGG	ATCACGTTCT	5520
TTCACAACGT	GAAGAAGAAT	TATTGGCTGG	AGCTGGAGAA	ATCTTTGGTT	CAGCAAGTGA	5580
AACCTTCGCT	ATCTTGGACA	ATGCGGATAT	TGTGTTCCCT	TATGTCCTAG	ACGATGATGG	5640
TAAAGAAGTT	CAGCTATCTC	ATGGGACTTA	CACACGTTTG	ATGGAGTCTA	AAAAACGTGA	5700
GGTTCGCCGT	GGTGCCTATC	AAGCTCTTTA	TGCGACTTAC	GAACAATTCC	AACACACCTA	5760
TGCCAAAACC	TTGCAAACCA	ATGTTAAGGT	GCAAAATTAC	CGTGCTAAAG	TTCGTAACTA	5820
CAAGAGTGCT	CGTCATGCAG	CCCTCGCAGC	GAATTTTGTT	CCAGAAAGTG	TTTATGACAA	5880
TTTGGTAGCA	GCAGTTCGCA	AGCATTTGCC	ACTCTTACAT	CGCTATCTTG	AGCTTCGTTC	5940
AAAAATCTTG	GGGATTTCAG	ATCTCAAGAT	GTACGATGTC	TACACACCGC	TTTCATCTGT	6000
TGAATACAGT	TTTACCTACC	AAGAAGCCTT	GAAAAAAGCA	GAAGATGCTT	TGGCAGTCTT	6060
GGGTGAGGAT	TACTTGAGCC	GTGTTAAACG	TGCCTTCAGC	GAGCGTTGGA	TTGATGTTTA	6120
CGAAAATCAA	GGCAAGCGTT	CAGGTGCCTA	CTCTGGTGGT	TCTTATGATA	CCAATGCCTT	6180
TATGCTTCTC	AACTGGCAAG	ACAATCTGGA	CAATCTCTTT	ACTCTTGTTC	ATGAAACAGG	6240
TCACAGTATG	CATTCAAGCT	ATACTCGTGA	AACTCAGCCT	TATGTTTACG	GGGATTACTC	6300
TATCTTTTTG	GCTGAGATTG	CCTCAACTAC	CAATGAAAAT	ATCTTGACGG	AGAAATTATT	6360
GGAAGAAGTG	GAAGACGACG	CAACACGCTT	TGCTATTCTC	AATAACTTCC	TAGATGGTTT	6420
CCGTGGAACA	GTTTTCCGCC	AAACTCAATT	TGCTGAGTTT	GAACACGCCA	TTCACCAAGC	6480
AGATCAAAAT	GGGGAGGTCT	TGACAAGCGA	TTTCCTAAAT	AAACTCTACG	CAGACTTGAA	6540
CCAAGAGTAT	TATGGTTTGA	GTAAGGAAGA	CAATCCTGAA	ATCCAATACG	AGTGGGCTCG	6600
CATTCCACAC	TTCTACTATA	ACTACTATGT	АТАТСААТАТ	TCAACTGGCT	TTGCGGCCGC	6660
CTCAGCCTTG	GCTGAAAAAA	TTGTCCATGG	TAGTCAAGAA	GACCGTGACC	GCTATATCGA	6720
CTACCTCAAG	GCAGGTAAGT	CGGACTATCC	ACTTAATGTC	ATGAGAAAAG	CTGGTGTTGA	6780

TATGGAGAAG	GAAGACTACC	TCAACGATGC	798 CTTTGCAGTC	TTTGAACGCC	GTTTAAATGA	6840
GTTTGAAGCC	CTTGTTGAAA	AATTAGGATT	GGCATAAAAT	GGTTGAATCG	TATAGTAAGA	6900
ATGCTAACCA	TAACATGCGT	CGTCCTGTCG	TCAAAGAAGA	AATTGTAGAC	TTGATGCGTC	6960
AGCGTCAAAA	GCAGGTCACA	GGTTTCTTGA	AAGAATTGGA	AGACTTTGCC	CGCAAGGAAA	7020
ATATTCCTAT	TATTCCCCAT	GAAACGGTTG	CTTATTTCCG	TTTTCTTATG	GAAACCATGC	7080
AGCCTAAAAA	TATTCTGGAA	ATTGGGACGG	CTATCGGTTT	TTCAGCTCTC	TTGATGGCTG	7140
AACATGCGCC	AAATGCTAAG	ATTACAACTA	TTGATCGTAA	TCCAGAAATG	ATTGGTTTTG	7200
CCAAGGAAAA	TTTTGCCCAG	TTTGACAGTC	GCAAGCAAAT	CACTCTCCTA	GAGGGAGATG	7260
CGGTGGATGT	CTTATCTACA	CTGACAGAGT	CTTATGATTT	CGTCTTTATG	GATTCTGCCA	7320
AGTCTAAATA	CATCGTCTTT	CTGCCAGAAA	TCCTCAAACA	TTTGGAAGTT	GGTGGTGTGG	7380
TTGTCTTGGA	TGATATTTTT	CAAGGTGGTG	ATGTTGCCAA	GGATATTATG	GAAGTCCGTC	7440
GTGGTCAGCG	AACCATTTAT	CGAGGCCTTC	AAAAATTATT	TGATGCAACC	TTAGACAATC	7500
CAGAACTCAC	CGCAACATTA	GTGCCTTTAG	GAGATGGTAT	TCTCATGCTT	CGTAAAAATG	7560
TAGCAGATGT	TCAACTGTCT	GAAAGCGAAT	GATTTTCAGA	AAAATTTAAG	AAAAAATAGT	7620
AAAATAGATA	GAGTAACACT	TATCTCAAAG	GAGTAGACAT	GAAGAAAAA	TTATTGGCAG	7680
GTGCCATCAC	ACTATTATCA	GTAGCAACTT	TAGCAGCTTG	TTCGAAAGGG	TCAGAAGGTG	7740
CAGACCTTAT	CAGCATGAAA	GGGGATGTCA	TTACAGAACA	TCAATTTTAT	GAGCAAGTGA	7800
AAAGCAACCC	TTCAGCCCAA	CAAGTCTTGT	TAAATATGAC	CATCCAAAAA	GTTTTTGAAA	7860
AACAATATGG	CTCAGAGCTT	GATGATAAAG	AGGTTGATGA	TACTATTGCC	GAAGAAAAA	7920
AACAATATGG	CGAAAACTAC	CAACGTGTCT	TGTCACAAGC	AGGTATGACT	CTTGAAACAC	7980
GTAAAGCTCA	AATTCGTACA	AGTAAATTAG	TTGAGTTGGC	AGTTAAGAAG	GTAGCAGAAG	8040
CTGAATTGAC	AGATGAAGCC	TATAAGAAAG	CCTTTGATGA	GTACACTCCA	GATGTAACGG	8100
CTCAAATCAT	CCGTCTTAAT	AATGAAGATA	AGGCCAAAGA	AGTTCTCGAA	AAAGCCAAGG	8160
CAGAAGGTGC	TGATTTTGCT	CAATTAGCCA	AAGATAATTC	AACTGATGAA	AAAACAAAAG	8220
AAAATGGTGG	AGAAATTACC	TTTGATTCTG	CTTCAACAGA	AGTACCTGAG	CAAGTCAAAA	8280
AAGCCGCTTT	CGCTTTAGAT	GTGGATGGTG	TTTCTGATGT	GATTACAGCA	ACTGGCACAC	8340
AAGCCTACAG	TAGCCAATAT	TACATTGTAA	AACTCACTAA	GAAAACAGAA	AAATCATCTA	8400
ATATTGATGA	CTACAAAGAA	АААТТАААА	CTGTTATCTT	GACTCAAAAA	CAAAATGATT	8460
CAACATTTGT	TCAAAGCATT	ATCGGAAAAG	AATTGCAAGC	AGCCAATATC	AAGGTTAAGG	8520
ACCAAGCCTT	ССААААТАТС	TTTACCCAAT	ATATCGGTGG	TGGAGATTCA	AGCTCAAGCA	8580

GTAGTACATC	AAACGAATAG	TCCAAATCAA	TGAGTCAGGG	AAAAAACTCG	ACTTCAGGAA	8640
AAAATGAAGC	AAACATTCCC	ACAATAAAAC	GCATAGTACA	AGGTTTGTAC	TGCCCCCCAA	8700
AAAGTTAGAC	AATTAATTTA	TCCGAAGGAT	TTAGTTCTGT	ATTGCACAGA	GCTAAGTCCT	8760
TTTAGTTTTA	TCTTAATTCT	CTTATTGTTG	TAATAATCAA	TATAGTCTAT	AATGGCTCGT	8820
TCCAATTGAT	TAAGTGATTT	AAATGTTTTC	TCATAGCCAT	AAAACATTTC	GGATTTTAAA	8880
ATGCCAAAGA	AAGATTCCAT	CCTACCGTTG	TCTTGGCTGT	TGCCCTTACG	TGACATGGAT	8940
GCTTGAATTC	CCTTACTCTC	TAGGAAGCGA	TGATAAGAAT	CGTGTTGATA	TTGCCAGCCT	9000
TGGTCACTAT	GGAGAATCGT	ATTCTCGTAG	TGCTTCTCTT	TGAATGCCTG	TTCCAACATT	9060
AACGATCAAT	CAATTTAATC	ATGTACCTAA	GATTAGAATT	GTTTATCCCA	AATTTATTTG	9120
AAAGCTTCTC	TAAGCTATAT	CCTTGTTTTC	TAAGTTCATA	GATCTGAACT	TTATCATCAT	9180
AAGTTAATTT	CATAATAAAA	ACACCCCAAA	AGTTAGATTT	TTTCTGTCTA	ACTTTTGGGG	9240
TGTAGTTCAT	GTACACCTGA	TATGATGCGT	$\mathbf{T}\mathbf{T}\mathbf{T}\mathbf{A}\mathbf{T}\mathbf{A}\mathbf{A}\mathbf{T}\mathbf{T}\mathbf{T}$	TAAAGACTTT	TTGACCAGCC	9300
TCATTTTTTT	AACTTGATAC	TCAGTGAAAA	GCAAAGATTA	AACTAGGAAG	CTAGCTGTAG	9360
GCTGCTCAAA	GAACAGCTTT	GAGGTTGTAG	ATAAAACTTG	TGAGGTCACC	AACATATATA	9420
ATGTGAAGCT	GACGTGGTTT	GAATAGATTT	TAGAAGAGTA	TGAGTCTGGA	AGTTTTAATG	9480
GATAATGCAA	GATTCCATAG	AATGGGTAAG	CTAGAGTTCT	TATGTGAAGA	GTTTGGGCAT	9540
AAACTTTTAC	CTTTTCCTCC	CTACTCATCT	TAGTATAGAA	AAGTGAATCT	GAAATAGTAC	9600
ATAACTGCTT	CTAAAACATT	СТТАТАААТТ	GATTTAAATT	CTCAAATCAT	ATTATTCAGT	9660
TCTTATTTCA	TTTTGTTCTA	CAATCCTGTT	GAGAAGACAC	GTGTTCATAT	CAAAAAGGTA	9720
TTGGCAAGTT	GCAATACCTT	TTTACGAGGC	TCTGTTGTCT	TATTTTTGTT	TCAACTGACT	9780
ATATCTCCTA	TGGTTCTAGT	TCAGAAGGCT	AGGCTATAAT	TATGATTGAT	AAGAAGTATC	9840
ATTCCAAGTA	TTGGGAGTGA	ATGTTTCAAA	ATCATGGGTT	TCTATAATGG	TCAGGCTGGC	9900
ATTTGCTAGA	CCGCCATCTT	TACGAAGAAG	TGGTTCTTTA	TAGCCTAGGA	GAGTACGAAG	9960
ACTGGCAGTA	AGATTGGCGC	CGTGTCCGAC	AATTAGAATA	CGTTCAGCTG	GACTATCTTT	10020
TAATGATTTG	ATAAATTGGA	TGGTCCGTTG	AGTTGTACTA	TAGAGGGATT	CGGCTCCGAA	10080
CATTCGAGTG	TCAAATTGAG	CAAGATTTGA	ACGAAAAGCC	TGGATTTGTT	GCGGGTAAAT	10140
AGCTTCCAAG	GTTGCAATTT	TCAAACCTTC	TAACTTCCCA	AGTTGCCATT	CACGGAGATT	10200
AGGAACGATT	TCTAAAGAAC	AGGGGGTATA	GAGTTGACTT	TGGATAATCT	CAGCAGATTT	10260
GACCGCTCGA	GGTAAATCAC	TTGAATAAAT	CTGATCAAAA	GGAATTTCCT	TGAGATACTG	10320

> 800 ACCAAGTCGT TTTAGGGTTT CAATGGATTC AGGAAGAAGA GGAGAATCAC CACTAGCACC 10380 TTGAAAACGA CCTTCTTGGT TCCAGAGGGT ACGACCGTGG CGGACAAAGT AGAGTTTCAT 10440 TACTTGATGT CCTCCAAAAT ATCTACAAAG TCTGCCTTTA CAAAGCTAGC CAAGTCTTGT 10500 GGCGCGACGA TAATGCTGTG TCCGACTTCG CCTGCAGAGA CAATCATTTG ATCCAAATCT 10560 AGAGCAATTT TATCGATAAA AATGGGATAA TTGTGTTTCT GACGAATTCC GACAGGATTA 10620 TTGGCTCCAT GAATGTAACC AGTTGTTTTT TCTAAGTCCT TTTGTGGAAT CATGCTCACT 10680 TTTTTATTGC CAGAAATTTT AGCTAGTTTC TTTTCAGACA AGTGCTGAGT GATAGGGACA 10740 ATTCCGATAA TCGGTCCGGT CTTGTCTCCC AAAAGCGCCA AGGTTTTGAA AATCTGATCT 10800 CGTTCATAAC CTTGAGGAAG CTCTCCTTCT AGGGCATTGA TTTGAATCCC CTGATGAGGG 10860 ATAGCTGCTT TAGATAGGAT TTGTTCCACC AATGTTTTTT TGATTTTAAC TTTTTTTGCC 10920 ATTATTATA TITATCCTCC AATTGACTCA TCCAAATACC AAGCCAGATT CCCAGCGCAA 10980 AGAAGAAGGC GATGATGACA TAACCGACAA GTGAAAGTCC TGTGTATTGG ATACTTTCAG 11040 CGTTTCCTGC ATTTGGAATT AAGATCAAAA GGGTACTTGA TAGGACGATA CCGATGATGA 11100 AATGATAGAC GAACTGTTTA CGGAGTTCTT CTAGTTCTCC GTCCGTCCAA GCGTAGGCCA 11160 CTTCTTCTTT CTTGCCTTTA CCTTTGGACA TCTTGTAAAG AGGTGGGAGG GCAATATAGA 11220 CATGACCTGC CTCGACTAGC GGACGCATGT AACGGTAGAA AAATGTCAAG AGCAAGGTCT 11280 GGATATGGGC ACCGTCGGTA TCCGCATCG 11309

## (2) INFORMATION FOR SEO ID NO: 109:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 5548 base pairs(B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 109:

CCATAGTCTA	ACAAGTCTTT	GTAAAGGTTT	ATCCCTGATT	CATGTAAAGA	TTGTGTAAAG	60
ААТСАААААА	AGCCACTTTT	GAAAAATGGC	TGCTCCTAAA	AATAGCTTTA	AAAATTATTA	120
GTCCTGTGCG	AAAGATTGGT	TAGGAAGAAA	AATCGTGAAG	CAACTGCCTC	TGCCAAGCTG	180
ACTCGTCACC	GTGACTTGGC	CACCTAATAA	TTGACTGAGT	TCTTTGACAA	TGGCAAGGCC	240
AAGACCAGTG	CCACCAGTTT	GTCTGCTTCG	ACCTTTATTA	ACTCGGTAAA	AACGTTCAAA	300
AATACGATCC	TGCTCTAATT	GACTAATACC	AATCCCTGTA	TCTGATACAG	AAATCTTAAT	360
GCCTTCGTTC	ACCTTTTGGG	TCTTGACCTC	AATTTTTCCC	CCTTGTTCAG	TGTAACGGAT	420

GGCATTGGAT	AAAAGATTGA	GTAAGATTTG	GGAAAGTAAT	TGACTATCTG	ATACGAGGGT	480
GACATCATCT	GGCACCTGCA	CCTTTAGCTG	TAAATCCTTC	TTCTTGAGCT	GAGGTTGCAA	540
GCTTTGAGTC	AAATCCTGTA	CAAATTCTGC	CAAAGAAAGG	GTCGTCCATT	GTATAGGCAT	600
TTGTTGAGCC	TTAGATAAGG	TAAGAAGATG	CTCAACAATA	TGCTCAAGAC	GCAAACTTTC	660
TTTGTAAATA	ATGTCTAGAA	AGTCATCCTT	GAGCGCTTCT	TCTTCAGCTG	ACATCCCCTT	720
AATGGTTTCA	GCAAAGCCCT	TAATCGAAGT	AACTGGTGTC	CTCAATTCAT	GGGAGGCATT	780
TGAGACAAAG	GCTAAATTTA	ACTTTTCATA	AGTTCTAATC	GTTGTTAAAT	CATATAGCAA	840
GACGAGCACA	GCTTCCACAG	ATTGGGTGGG	GCTAAAAACG	GGAACTGCTG	TCACTTCTAA	900
AATCAAGTCA	CCCTCATGAA	ACCCACTTAC	TTCTTGTTTT	AACCTTGTTT	TTTGATCAAA	960
GGCTTGGTGA	ACTAAATTCC	GAATATCCAT	CCGTTTGAGG	TCATCAAGTG	AACTTATGTC	1020
GCCGTCCACA	TCGGGAAAAT	AATGAGGCAG	AGAGCGACTG	GATAATAACA	TCTGACCTTG	1080
AGCGGAAACT	AAAAACGTCC	CCATGGTTAG	GTGCGACAGA	AGAACCTCCA	TTGTTTCGGC	1140
TAGATCCTTG	TATTGCTGAT	CCTGTTGGGA	GACTTTGGTT	TTTAGGCCAG	ACACATACTG	1200
AGCCAAAGAC	TTTAAGTCTT	CTTGCCCTTT	TTCTAAAAAG	TATTCACTAC	TGGTCAAGAG	1260
AGGTTGGTGC	AAGGTCTCAA	AAGCAACTTC	CCATTTCCAA	AGGCAAAAGA	GCCAGTAGCC	1320
ACCTAGTCCC	AAAGAAAGGG	CTAGAAGAAA	GAGACCGATG	CCTTTACTGA	TCCAAGTTAA	1380
TGCCATCCCT	GCAATCAGAA	TGAGGCTAAC	ACTTAGATTG	ACTAGCCAAA	ATTGAAGGTA	1440
GCGTTTCATC	TATAACTCCT	TGAACTTATA	ACCATAACCC	CGAATGGTTC	GAATAAATTG	1500
AGGGGCTTTA	GGATTGTCTT	CAATTTTTC	CCTCAACTTA	CCAATATGAA	CGTCCACCAA	1560
ACGTGTTTCC	TGCCCAAAGT	CATACCCCCA	GATACGTTCC	AAAAGACGCT	CTCTAGTCAG	1620
TGTCATGTTG	GGATGTTTCA	TAAGATAGAG	CAAGAGTTCA	AATTCTTTTG	GGGTCAAACT	1680
CAGTAACTTA	TTCGCCTTGT	AGACTTCATG	ACGCTCAGGG	TATACTTTCA	AGGTCCCAAA	1740
TAGCCAAGAA	TCGTCAGCGA	TATTATCTGA	ATCATCTCCT	TCTTGTTCTC	CTTTAGTTCG	1800
CCTGAGGACA	GCCTTGACAC	GCGCCAGCAA	TTCTCTAGGG	CTAAAAGGCT	TGGTCAGGTA	1860
GTCATCAGCC	CCTAATTCCA	AGGCCAAAAC	CTTATCAAAT	TCATCACTTT	TCGCAGAAAC	1920
CATCATAATT	GGAGTTTTGA	CGCCTTTGGC	TCTCAGCCGC	TTACAAACTT	CCATGCCATC	1980
TAATTGTGGT	AACATGATAT	CAAGCAAGAT	AAAATCAAAG	GGTTCTGTTT	CTGCCAAAGC	2040
TAAGGCCTTC	CGTCCATTTG	TCACCAATTG	AGTAGAAAAG	CCTTCCTTAC	TTAAATGGTA	2100
GTCAAGCAAT	TTCAGAATGT	GTTCTTCATC	ATCCACTAAT	AAGACTTGTT	TTGTCATCTA	2160

			802			
ТТАТСТССТА	TTGGTAACAT	TATAACACAA	TTATCAGAAA	TCCTAACATT	GCTAAATCAG	2220
ATTAAATTTG	CCTATCAAGA	CTAGTATCTG	GTCAAACGCT	CAATCATCTC	CTTGTGCTCT	2280
GGATAGGTCG	CCAGTAGATC	TACCCTTTCA	AATAATTCAA	AATCCTCAAA	TTCAAAACCA	2340
GGAGCAACAA	GACAAGAAAC	CAGAGCATCA	TCCTTATCAA	CTGTTGATCC	CCAAATAGTG	2400
CCCTTAGGAA	CACAGTAGTG	AAGTTGTTGC	CCTTTGGATA	TGTCCAGGCC	TAAAGTGACT	2460
GCTTCGTAGT	GACCATCTGC	TGTAATCATG	TGAACAGTAA	GTGGGGATCC	TGCATGAAAA	2520
TACCAGATTT	CATCTGCTGT	CAATCGGTGA	AAATGTGAAG	GATTCGTTTC	TTCTAATAAG	2580
АААТАААТАС	TGGTATAAAG	CGCCCTTCCC	TTACCAGCAA	GGTTTATAGT	GTCTGAAGCT	2640
TTTTTTGTTT	GTCTAAAATA	GCCACCTTCA	ATATGGGGAG	CTAACTCTAG	AGTTCTTATC	2700
AAGTCTTCTT	TATCCGTCGG	AGCCAATGGG	TTGAAGTAAC	TCTTGTTCAA	AGTGGTTTTA	2760
CGATTTCAAG	AACTCCTCTC	AGTTCTGAGG	ACACGGTAAT	GATTGATGCG	ACGGAAGTAC	2820
AAATCAATCG	СССТААААА	AGAATTAGCG	AATGATTCTG	GTAAAAAAAA	TGCCACGCTA	2880
TGAAGGCTCA	AGCGATTGTC	ACAAGTCAAG	GGAGAATTGT	TTCTTTGGAT	ATCGCTGTGA	2940
ACTATTGTCA	TGATATGAAG	TTGTTCAAAA	TGAGTCGCAG	AAATATCGGA	CAAGCTGGTA	3000
AAATCTTGGC	TGACAGTGGT	TATCAAGGGC	TCATGAAGAT	ATATCCTCAA	GCACAAACTC	3060
CACGTAAATC	CAGCAAACTC	AAGCCACTAA	CAGTTGAAGA	TAAAGCCTAT	AACCATGCGC	3120
TATCCAAGGA	GAGAAGCAAG	GTTGAGAACA	TCTTTGCCAA	AGTAAAAACG	TTTAAAATGA	3180
TTTCAACAAC	CTATCGAAAT	CATCGTAAAC	ACTTCGGATT	ACGAATGAAT	TTGATTGCTG	3240
GCATTATCAA	TCATGAACTA	GGATTCTAGT	TTTGCAGGAA	GTCTATTATT	TGGTTAGGTG	3300
AATTAGTGAA	GCGTTTAGGC	AAGTGTCTCT	GGTTACGACG	TCATGGACTC	TAAATCGATT	3360
ATATTTAGGG	GTCATGACTA	GTGAAGCAGT	TAGCTAGTTC	GCATATAAGC	GGCTAGCGTC	3420
TAACAATTAG	GAACTTTAGT	TCCAATAACT	TTAAGATTAC	GACGTTTTAG	GACATAAATC	3480
GATCATATTT	ATGTCCTAAA	ACTAGTGAAG	CGCCTAGCCA	AAGTCCGAAT	AGGATTTGGC	3540
GTTAGTTACT	TAGATTGCTT	TGCAATCAAG	TAACTTTGGC	GATTTACATC	TTCTCTGGCG	3600
CTTCTACTCC	AAGCAAGCGA	AGGGCTTCTT	TGAGAACGAC	TGCGGTTGCG	TAGCTGAGGG	3660
CTAGACGGCT	GTCGCGTTCT	GGGCTTTCAT	CCAAGATACG	TGTATGTGCA	TAGTATTTGT	3720
TAAAGGATTG	AGCCAGGCTA	ATTGCAAATT	TAGCAATGAT	AGAAGGTTCA	AAGTTATCTG	3780
CCGCACGGTT	GATAATACGT	GGGAAGTCTT	GAATGAGTTT	AATGATTTCC	CAGCTTTCAG	3840
TATCATTCAA	GCTATAGTTG	CCAGCTGTTT	CTGGTTTGAA	ATCGGCTTTG	CGTAAGATAG	3900
ATTGGATACG	AGCGTAGGCA	TATTGAACGT	AAGGTCCAGT	TTCACCCTCG	AAGGATACCA	3960

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TAGCCTCTAG	GTCGAAGTCG	TATCCATTTG	TACGGTCGGT	TTTGAGGTCA	TAGAATTTAA	4020
TGGCTCCAAT	CCCAACAGCA	TGTGCTACTT	GGTCTTTGTT	TTCTAGTTCA	GGATTTTTAG	4080
CCTCGATTTG	GACCTTGGCA	CGGCTAACAG	CCTCTGCAAC	AGTAGGCTCT	AGCAAGATGA	4140
CATTCCCTTT	ACGAGTAGAG	AGTTTCTTCC	CTTCTTTTGT	AACCAAACCA	AAAGGAACGT	4200
GAGTAATGTC	GTCACTCCAG	TCGTAGCCCA	TCTCTTGCAA	GACAGCTTTG	AGCTGTTTAA	4260
AGTGGGCAGA	TTGTTCTTGA	CCAACGACAT	AGATAGATTT	AGCAAATTGG	TATTCGTTTT	4320
TACGGTAGAG	GGCTGCAGCC	AAGTCACGTG	TGATATAGAG	AGTTGCACCA	TCAGACTTCT	4380
TGATGAGGGC	TGGATGTTCA	ATTCCATATT	TCTCAAGATT	CACAACTTGG	GCACCTTCTG	4440
ATTCAAGAAG	TAGTCCTTTT	TCAGAAAGAA	TGTCTACAAC	TGCATCCATC	TTATCATTGT	4500
AGAAGGCTTC	TCCGTTATAG	CTGTCAAATT	CAACCTTCAA	TTCATTGTAA	AGGCGGTTAA	4560
ATTCCACTAA	ACTTTCATCG	CGGAACCATT	GCCAAAGAGC	GAGAGCTTCC	TCATCTCCAT	4620
TTTCAAGTTT	ACGGAACCAT	TCGCGCGCTT	CTTCATCCAA	GCTAGGGTCA	TTTTCAGCTT	4680
CAGCGTTGAT	GCGGACATAG	AGTTTAAGGA	GTTCATCGAT	TGGATGAGCT	TTTACAGCTT	4740
CTTCGTCGCC	CCATTTTTTG	TAGGCAACAA	TCAACATCCC	AAATTGTTTA	CCCCAGTCTC	4800
CCAAATGGTT	GACCTTGACC	GTTTGATAAC	CGATTTTTTG	GAAAATATGT	GACAAGCTAT	4860
CTCCGATAAC	AGTTGAACGC	AGGTGGCCAA	TAGAAAATGG	TTTAGCGATA	TTCGGACTAG	4920
ACATGTCGAT	AACAACATTT	TCTTGTTTAC	CAATATTTTG	GTCAGCATAG	TGTTCTTTTT	4980
CAGTGGTAAC	AGCTTGCAAT	ACTTGAGCAG	AAATGGCAGA	TTTATCAAGG	AAAAAGTTAA	5040
CGTAAGGTCC	TGTTGCGACA	ACTTTTTCAA	AGGCTTGGCT	GTTCATTTTT	TCAGCCAGTT	5100
CAGCCGCAAT	CATTTGTGGT	GCTTTACGTT	CGACTTTTGC	AAGAGAAAAA	GCAGGGAAAG	5160
CAATGTCTCC	CATTTCTGAG	TTTTTAGGGG	TTTCCAGTAA	СТТТААААТА	GCCTCTTGGT	5220
CCAGGCTATC	AATGATGCTA	GATAATTCGC	TAGCAATCAA	TTCTTTTGTA	TTCATTAAGA	5280
GCTCCTTTTT	GGACTTTTCT	ACTATTTTAT	CACAATTTTA	AAGAAAGAAG	AAAAAATTTT	5340
TGAAATCTCC	TGTTTTTTTG	GTATAATATG	GTTATAAATA	TAGTTATAAA	TATGCACGCA	5400
AGAGGATTTT	ATGAGAAAAA	GAGATCGTCA	TCAGTTAATA	AAAAAAATGA	TTACTGAGGA	5460
GAAATTAAGT	ACACAAAAAG	AAATTCAAGA	TCGGTTGGAG	GCGCACAATG	TTTGTGTGAC	5520
GCAGACAACC	TTGTCTCGTG	ATTTGCGG				5548

## (2) INFORMATION FOR SEQ ID NO: 110:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 3132 base pairs

804

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 110:

TACCCGGTAG	TCTTAGCAGA	CACATCTAGC	TCTGAAGATG	CTTTAAACAT	CTCTGATAAA	60
GAAAAAGTAG	CAGAAAATAA	AGAGAAACAT	GAAAATATCC	ATAGTGCTAT	GGAAACTTCA	120
CAGGATTTTA	AAGAGAAGAA	AACAGCAGTC	ATTAAGGAAA	AAGAAGTTGT	TAGTAAAAAT	180
CCTGTGATAG	ACAATAACAC	TAGCAATGAA	GAAGCAAAAA	TCAAAGAAGA	AAATTCCAAT	240
AAATCCCAAG	GAGATTATAC	GGACTCATTT	GTGAATAAAA	ACACAGAAAA	TCCCAAAAAA	300
GAAGATAAAG	TTGTCTATAT	TGCTGAATTT	AAAGATAAAG	AATCTGGAGA	AAAAGCAATC	360
AAGGAACTAT	CCAGTCTTAA	GAATACAAAA	GTTTTATATA	CTTATGATAG	AATTTTTAAC	420
GGTAGTGCCA	TAGAAACAAC	TCCAGATAAC	TTGGACAAAA	TTAAACAAAT	AGAAGGTATT	480
TCATCGGTTG	AAAGGGCACA	AAAAGTCCAA	CCCATGATGA	ATCATGCCAG	AAAGGAAATT	540
GGAGTTGAGG	AAGCTATTGA	TTACCTAAAG	TCTATCAATG	CTCCGTTTGG	GAAAAATTTT	600
GATGGTAGAG	GTATGGTCAT	TTCAAATATC	GATACTGGAA	CAGATTATAG	ACATAAGGCT	660
ATGAGAATCG	ATGATGATGC	CAAAGCCTCA	ATGAGATTTA	AAAAAGAAGA	CTTAAAAGGC	720
ACTGATAAAA	ATTATTGGTT	GAGTGATAAA	ATCCCTCATG	CGTTCAATTA	TTATAATGGT	780
GGCAAAATCA	CTGTAGAAAA	ATATGATGAT	GGAAGGGATT	ATTTTGACCC	ACATGGGATG	840
CATATTGCAG	GGATTCTTGC	TGGAAATGAT	ACTGAACAAG	ACATCAAAAA	CTTTAACGGC	900
ATAGATGGAA	TTGCACCTAA	TGCACAAATT	TTCTCTTACA	AAATGTATTC	TGACGCAGGA	960
TCTGGGTTTG	CGGGTGATGA	AACAATGTTT	CATGCTATTG	AAGATTCTAT	CAAACACAAC	1020
GTTGATGTTG	TTTCGGTATC	ATCTGGTTTT	ACAGGAACAG	GTCTTGTAGG	TGAGAAATAT	1080
TGGCAAGCTA	TTCGGGCATT	AAGAAAAGCA	GGCATTCCAA	TGGTTGTCGC	TACGGGTAAC	1140
TATGCGACTT	CTGCTTCAAG	TTCTTCATGG	GATTTAGTAG	CAAATAATCA	TCTGAAAATG	1200
ACCGACACTG	GAAATGTAAC	ACGAACTGCA	GCACATGAAG	ATGCGATAGC	GGTCGCTTCT	1260
GCTAAAAATC	AAACAGTTGA	GTTTGATAAA	GTTAACATAG	GTGGAGAAAG	TTTTAAATAC	1320
AGAAATATAG	GGGCCTTTTT	CGATAAGAGT	AAAATCACAA	CAAATGAAGA	TGGAACAAAA	1380
GCTCCTAGTA	AATTAAAATT	TGTATATATA	GGCAAGGGGC	AAGACCAAGA	TTTGATAGGT	1440
TTGGATCTTA	GGGGCAAAAT	TGCAGTAATG	GATAGAATTT	ATACAAAGGA	ТТАААААТТТ	1500
GCTTTTAAAA	AAGCTATGGA	TAAGGGTGCA	CGCGCCATTA	TGGTTGTAAA	TACTGTAAAT	1560

ТАСТАСААТА	GAGATAATTG	GACAGAGCTT	CCAGCTATGG	GATATGAAGC	GGATGAAGGT	1620
ACTAAAAGTC	AAGTGTTTTC	AATTTCAGGA	GATGATGGTG	TAAAGCTATG	GAACATGATT	1680
AATCCTGATA	AAAAAACTGA	AGTCAAAAGA	AATAATAAAG	AAGATTTTAA	AGATAAATTG	1740
GAGCAATACT	ATCCAATTGA	TATGGAAAGT	TTTAATTCCA	ACAAACCGAA	TGTAGGTGAC	1800
GAAAAAGAGA	TTGACTTTAA	GTTTGCACCT	GACACAGACA	AAGAACTCTA	TAAAGAAGAT	1860
ATCATCGTTC	CAGCAGGATC	TACATCTTGG	GGGCCAAGAA	TAGATTTACT	TTTAAAACCC	1920
GATGTTTCAG	CACCTGGTAA	AAATATTAAA	TCCACGCTTA	ATGTTATTAA	TGGCAAATCA	1980
ACTTATGGCT	ATATGTCAGG	AACTAGTATG	GCGACTCCAA	TCGTGGCAGC	TTCTACTGTT	2040
TTGATTAGAC	CGAAATTAAA	GGAAATGCTT	GAAAGACCTG	TATTGAAAAA	TCTTAAGGGA	2100
GATGACAAAA	TAGATCTTAC	AAGTCTTACA	AAAATTGCCC	TACAAAATAC	TGCGCGACCT	2160
ATGATGGATG	CAACTTCTTG	GAAAGAAAAA	AGTCAATACT	TTGCATCACC	TAGACAACAG	2220
GGAGCAGGCC	TAATTAATGT	GGCCAATGCT	TTGAGAAATG	AAGTTGTAGC	AACTTTCAAA	2280
AACACTGATT	CTAAAGGTTT	GGTAAACTCA	TATGGTTCCA	TTTCTCTTAA	AGAAATAAAA	2340
GGTGATAAAA	AATACTTTAC	AATCAAGCTT	CACAATACAT	CAAACAGACC	TTTGACTTTT	2400
AAAGTTTCAG	CATCAGCGAT	AACTACAGAT	TCTCTAACTG	ACAGATTAAA	ACTTGATGAA	2460
ACATATAAAG	ATGAAAAATC	TCCAGATGGT	AAGCAAATTG	TTCCAGAAAT	TCACCCAGAA	2520
AAAGTCAAAG	GAGCAAATAT	CACATTTGAG	CATGATACTT	TCACTATAGG	CGCAAATTCT	2580
AGCTTTGATT	TGAATGCGGT	TATAAATGTT	GGAGAGGCCA	AAAACAAAAA	TAAATTTGTA	2640
GAATCATTTA	TTCATTTTGA	GTCAGTGGAA	GCGATGGAAG	СТСТАААСТС	CAGCGGGAAG	2700
ААААТАААСТ	TCCAACCTTC	TTTGTCGATG	CCTCTAATGG	GATTTGCTGG	GAATTGGAAC	2760
CACGAACCAA	TCCTTGATAA	ATGGGCTTGG	GAAGAAGGGT	CAAGATCAAA	AACACTGGGA	2820
GGTTATGATG	ATGATGGTAA	ACCGAAAATT	CCAGGAACCT	TAAATAAGGG	AATTGGTGGA	2880
GAACATGGTA	TAGATAAATT	TAATCCAGCA	GGAGTTATAC	AAAATAGAAA	AGATAAAAAT	2940
ACAACATCCC	TGGATCAAAA	TCCAGAATTA	TTTGCTTTCA	ATAACGAAGG	GATCAACGCT	3000
CCATCATCAA	GTGGTTCTAA	GATTGCTAAC	ATTTATCCTT	TAGATTCAAA	TGGAAATCCT	3060
CAAGATGCTC	AACTTGAAAG	AGGATTAACA	CCTTCTCCAC	TTGTATTAAG	AAGTGCAGAA	3120
GAAGGATTGA	тт					3132

## (2) INFORMATION FOR SEQ ID NO: 111:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14672 base pairs

806

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 111:

			-			
CGAGATTTCT	TTAAATGAAC	TACGTGAAAT	CTACCCATCA	TCCAGATCTG	GATATTCTCT	60
CCTATCTATA	AGTAAAGTTT	TAGGAGATTT	TAATATAAGT	TCTCATGCTT	TTAAAGCTTC	120
GGTAAGAGAT	TTAAAACCGC	TCAGTTTCCC	ACTCATTTGC	TTCTGGGAGA	GTTCTCATTT	180
TATTATTCTT	GAAAAAATTA	GTAAAAACAA	GTTTTATATT	TTAGATCCTG	CAAAAGGCAG	240
GCAGAGAATG	TCAATAAGTG	AATTTGAAAG	GCATTATTCA	AATATCATTT	TAACATTTAA	300
AAAGTTAGAT	AGCTTTATGT	CTCGTAAAGA	TAATAAGAAG	TCGCCTGTTT	TAAAGTATTT	360
TTTTAAGTAT	AGGAATAAGC	TAGGGATTTT	ATTTTTTGTA	ACAGCATTAT	TGTATGTAAT	420
ACAATCATTA	GTACCTATAG	CTAATAGATA	CATAATTGAC	ACGAATTTCA	AGGACGATTC	480
GTATTCGTCT	AGAATGTTAT	TTACTATATT	ATTTATATTT	ACTGTTTCAT	TCTCACTAAT	540
GTATTTATTA	AGACAGATAT	ATGTTGCATC	CTTAAAATAT	ATAATGGATA	AAGAGATTAG	600
CTATGATTTT	ATGAAACATT	TGATATATTT	ACCTTACAGT	TTTTATGAAA	AACGTACTTT	660
AGGGGATATA	CTTTTTAGAG	CTAACTCTAT	TGTTTATATA	AGAGAAATAC	TATCAAATAA	720
TTTTATAGCA	GCTATACTTG	ATTTGTTAAT	GATTGTGGTT	TATGCTGTGG	TTTTATTTAG	780
CTTTTCTAAG	TACATGGTAA	TCTTTTTAAT	ATCACTAAGT	CTAGCTCTAT	CTATTGTAAT	840
GTATCCAATC	АТАААААТСТ	CAAAAAATTT	AATTGATAAA	AATATAAAAG	AAAAGGTTAA	900
TGTTCAAAAT	ATTACTTCCG	AAGTAATTTC	TAAAAATAGT	GATATTAAGC	TAACTGGAGA	960
AGAGGAATTT	TGGATTAACA	AATGGGATAA	TTTTAATACA	AAACAGCTCA	TCATAGGTCG	1020
AAAACTTGAT	ATACATTTAT	CAATTGTTAG	TAGTATAACG	AATGTTTTAC	AAATTATTCT	1080
CCCTGTTTTG	ACCCTTATTG	TAGGTGTAAA	TATAAAAACA	TTCGAACAAT	TGACGTTAGG	1140
ACAAATTGTA	GCAATAAGTA	CAGTCTCACC	ATACTTTATT	тстсстатаа	TTTCTTTAAG	1200
TGATAACTAT	АТАСААТТАА	TGTTATTAAA	GGGATATTTT	TTAAGAATAG	AGGATGTGTT	1260
ТААТАСТААА	TCCGAATTAA	TTCCAGAAAG	AGTCAGTCAA	GATATAAAAT	TTGATAAAAA	1320
AATAGAATTA	AAAGATATTT	GGTATAAATA	TGGATTATTT	GATGATTATG	TTTTGAAAGG	1380
AATAAATGTT	АСТАТТАААА	AAGGAGAAAC	TGTTGCTATT	GTTGGAGAAT	CAGGTTCAGG	1440
TAAGAGTACA	TTAGCTAAAA	TTTTATTAGG	TTTATTAGAA	CCTAATATTG	GTTCAATAGA	1500
AGTTGATGGA	GTAGAAAAAG	AAGAAATTGG	TCAAACATTG	TATAGAAAGA	TTTTTGGAGC	1560

AGTGTTACAA	AATTCAACCC	TAAGTTATGG	TACCTTAAGA	GAGAATTTGA	CATTTGGACA	1620
CTTTGTTTCA	GATGAAGAAT	TAATGACAAA	TCTAAATTCA	ATTGGTCTTA	GCAATGTAGT	1680
ТАААТСТТТА	CCTCTTGGAT	TAGAGACAAT	CATCGCTGAA	GAAGGTAATA	ACTTTTCTGG	1740
AGGGCAGCAG	CAAATGATAC	TTTTAGCTCG	TTGTCTTTTG	TCGAAACCTT	CGGTAGTTGT	1800
TTTGGACGAA	GCAACAAGTA	GTTTAGATAA	TTTATCTCAA	CAAATTACAA	CTTCTTACTT	1860
AAGTGAAATC	GGTACCACTA	AGATTTTAAT	TGCCCATCGA	CTAGATACTA	TCAAGTCTGC	1920
AGATAAGATC	TTAGTAATGC	ATAATGGTGA	AATTGTAGAG	ATTGGGACCC	ATAGAGAACT	1980
TCTTGAACTA	GGAGGCATTT	ATAAGCAATT	GTATTCAAAT	AATTAGTTTT	TGATTAAAAG	2040
GGTAAATTTA	TGAAGATTAT	GAAAAAAAA	TATTGGACTT	TAGCGATATT	ATTCTTTTGT	2100
TTGTTCAATA	ATTCTGTTAC	TGCTCAAGAA	ATACCTAAAA	ATCTTGATGG	CAATATAACT	2160
CACACTCAGA	CTAGCGAAAG	TTTTTCTGAA	TCTGATGAAA	AACAGGTTGA	СТАТТСТААТ	2220
AAAAATCAAG	AAGAAGTAGA	ССААААТААА	TTTCGTATTC	AAATCGATAA	GACAGAATTA	2280
TTTGTAACAA	CAGATAAACA	TTTAGAAAAA	AACTGTTGTA	AATTGGAACT	TGAACCACAA	2340
ATAAATAACG	ATATTGTTAA	CTCTGAAAGT	AATAATTTAC	TAGGCGAAGA	TAATTTAGAT	2400
ААТААААТТА	AGGAAAATGT	TTCTCATCTA	GATAATAGAG	GAGGAAATAT	AGAGCATGAC	2460
AAAGATAACT	TAGAATCGTC	GATTGTAAGA	AAATATGAAT	GGGATATAGA	TAAAGTTACT	2520
GGTGGAGGCG	AAAGTTATAA	ATTATATTCT	AAAAGTAATT	CTAAAGTTTC	AATTGCTATT	2580
TTAGATTCAG	GAGTCGATTT	ACAAAATACT	GGATTACTGA	AAAATCTTTC	AAATCACTCA	2640
AAAAACTATG	TCCCCAATAA	AGGATATTTA	GGAAAAGAGG	AGGGAGAGGA	AGGAATAATA	2700
TCAGATATTC	AAGATAGATT	AGGTCATGGT	ACGGCTGTTG	TAGCTCAAAT	TGTAGGGGAT	2760
GACAATATTA	ATGGAGTAAA	TCCTCACGTT	AATATTAACG	TCTATAGAAT	ATTTGGTAAG	2820
TCGTCAGCTA	GTCCAGATTG	GATTGTAAAA	GCAATTTTTG	ATGCTGTAGA	TGATGGCAAT	2880
GATATTATCA	ATCTTAGTAC	TGGACAATAT	TTAATGATTG	ATGGAGAATA	TGAGGACGGA	2940
ACAAATGATT	TTGAAACATT	TTTGAAGTAT	AAAAAGGCTA	TTGATTACGC	GAATCAAAAA	3000
GGAGTAATTA	TAGTAGCTGC	ATTAGGGAAT	GACTCCCTAA	ATGTATCAAA	TCAGTCAGAT	3060
TTATTGAAAC	TTATTAGTTC	ACGCAAAAAA	GTAAGAAAAC	CAGGATTAGT	AGTTGATGTT	3120
CCAAGTTATT	TCTCATCTAC	AATTTCGGTC	GGAGGCATAG	ATCGCTTAGG	TAATTTATCA	3180
GATTTTAGCA	ATAAAGGGGA	TTCTGATGCA	ATATATGCGC	CTGCAGGCTC	AACATTATCT	3240
CTTTCAGAAT	TAGGACTTAA	TAACTTTATT	AATGCAGAAA	AATATAAAGA	AGATTGGATT	3300

			9.09			
TTTTCGGCAA	CACTAGGAGG	ATATACGTAT	808 CTTTATGGAA	ACTCATTTGC	TGCTCCTAAA	3360
GTTTCTGGTG	CGATTGCAAT	GATTATTGAT	AAATACAAAT	TAAAAGATCA	GCCCTATAAT	3420
TATATGTTTG	TTAAAAAAATT	CTGGAAGAAA	CATTACCAGT	AAAAAATGGT	ATAAAAGTGT	3480
TAAATATACC	AAACGTATTG	AGATATGATT	TGAATATGTT	ACAATTAGAA	TATAAAAATG	3540
AACAAAGTTG	GGATAGTTTC	ATAGATAATG	TTAATTTAAT	TGAGTTGGAA	GAGAGAATTC	3600
AAACTACTAT	TGGAATTAAA	CAAATAAACA	CACACAATAT	TATTACTATT	GCCCGAGAAG	3660
GGTACTCTCA	AAATTATTTA	CCTAACACTT	CAGAAAATAC	ATATAATTCA	TTACAAGTCA	3720
GTTTAGTTGG	AGTATTACTA	CTTTTTATAA	GTATGGTAAA	TATTTTATGG	GCTAAAAAA	3780
GTAAATGAAA	ATAAAATTTG	GAGCCCTCTG	AAAAAGTAAG	TCCTACAGTT	CAACTAAAAT	3840
GAGTCAAAAG	ATGAATCACC	TTGATGTAGG	GGAGTTTGTC	TTATTGCTGC	CTGAACACCT	3900
CCGTTCAGAG	GAAGAACATT	ATAAATCTGT	TTTTGAAGAC	GACTTAACCA	GTCGCATATC	3960
TAGTCAAGAT	GAACGACAGC	AAATGACTGC	TACGGTAGGT	TATTTAGAAT	CAGGTCAGGA	4020
TCGTTTTGTG	TATAATACGA	CCCCTATTTC	TTACCAGCAG	TTTTTGAAAG	ATCCAATCAT	4080
CATTGTTATA	ACACCCCAAT	CAACTGGTCC	ACAGTCCATT	TTGTTTTGGA	TAGACGCAGT	4140
ACAGAACTAC	GTTCTCTTTA	ATCAATTGTC	TGATGCCCAG	GAGCTTATCC	AGAGACAAGG	4200
CATTGAAAAT	TGGGTCTCAG	AAATGCAAAC	AGGTTACCAC	AACTACATCA	CATTATTGGA	4260
TAATATCCAG	AGGGAACGTT	GGGTAATGCT	AGCAGGAGCT	GTGCTTGGGA	TTGCAACTTC	4320
AATCTTGTTG	TTTAACACTA	TGAATAGGCT	CTACTTTGAA	GAATTTAGAC	GTGCCATTTT	4380
TATCAAACGC	ATTGCAGGTC	TCAGGTTCTT	AGAAATCCAT	CGCACTTATC	TCTTTGCTCA	4440
ACTGGGTGTG	TTTTTACTGG	GATTTGTTGC	GAGTGTATTT	CTTCAGGTAG	AGATAGGAGT	4500
TGCTTTCTTA	GTCTTGTTAC	TCTTTACTGG	TCTATCTCTT	TTACAGTTAC	ATGTCCAAAT	4560
GCAGAAAGAA	AACAAGATGT	CCATGCTTGT	TTTGAAGGGA	GGTTAATATG	ATTGAACTTA	4620
AACAGGTGAG	TAAATCTTTT	GGAGAACGAG	AGTTATTTTC	GAATCTTTCA	ATGACATTTG	4680
AGGCTGGAAA	AGTCTATGCC	TTAATTGGTT	CAAGTGGTAG	CGGAAAAACA	ACCTTGATGA	4740
ACATGATTGG	GAAATTAGAA	CCTTATGATG	GGACGATTTT	TTACCGAGGT	AAAGACTTGG	4800
CCAATTATAA	ATCAAGTGAT	TTTTTCCGTC	ACGAATTGGG	CTACCTCTTC	CAGAACTTTG	4860
GCTTAATTGA	AAACCAAAGT	ATTGAAGAAA	ACCTTAAGCT	AGGTCTCATT	GGTCAAAAGT	4920
TGAGTCGGTC	GGAACAGCGG	TTGAGGCAGA	AGCAGGCTTT	AGAACAGGTC	GGCCTGGTTT	4980
ATCTTGACCT	AGATAAGCGC	ATCTTTGAGT	TATCGGGCGG	AGAATCGCAA	CGGGTTGCCT	5040
TGGCAAAAAT	TATCTTAAAG	AATCCACCCT	TTATTCTGGC	AGATGAGCCA	ACAGCTTCAA	5100

TAGACCCAGC	AACCTCTCAG	TTGATTATGG	AGATTTTGCT	ATCTCTTCGA	GATGATAATA	5160
GGCTAATCAT	TATCGCAACA	CATAATCCGG	CAATTTGGGA	GATGGCTGAT	GAAGTGTTCA	5220
CGATGGATCA	TCTGAAATAA	AAATCCTTGT	TTTTAATTGC	ACGATGAGTT	ACTGAAATAT	5280
TATCATGAAT	CAAGAATTGG	AGTTAATTTA	GAATTGTACT	TAATTTAGAA	TTGTACTTTA	5340
TTAATATTGA	GGTAACTTTT	TCTTGATAAA	GGAAGAAATA	ATGGAGAGGA	AGTTAGAATG	5400
AAAAAATTCG	ACAATTATAT	TATTGAGAAG	CCTTGCGATT	CTAATTCAGA	TAAACTGCAA	5460
AAAATCTTAA	TAATTGAAAG	TTTGGTAGAT	GATATTTTGC	AATTTTCTCT	CAGAATCAAT	5520
AATAGTGTAG	GAGAGATTTT	CCTCCTACAA	CCGTTTTAAA	AGAAAACTAT	CTTTATTCCA	5580
TGTTATTTTG	AGGAAGATAT	TGTGAAAGTC	AAAGATGATG	ATAAAGTTGA	GTGGAATTTG	5640
TTAGAATTTC	AAAAATTTAG	AGCATTTTTG	GCTTAGTAAT	CTGTGTTGAA	GGCTCAAAAC	5700
CTATGGTAAA	AAAGTAGCTT	TGAAAACGTA	TTGCCTCCAA	AGATTTAGTT	AAATAATGAT	5760
TTAACACAAA	AAGAAATTAT	TGAAGTTCTG	GAAAGATGTT	GTTTCAGTAT	TGAGAAAAGG	5820
TGGGAAAAAC	TTGCGATTTT	CACAGAGAAA	GGAAGAAAA	GTATAGAAAT	ATAGTCAATT	5880
GAAACAAGAA	CAGGATAAAA	GAACCTTTTG	TGCCATATTT	TTCTCCTTTC	GCTTTACAAT	5940
TGGATTGAAC	ACCTTTATTG	TATCGCGTTT	GGAGTTTTTT	TGGTATAACC	TTCGACGCAC	6000
ACCCGCATAG	CGGGTGTTTT	TTTTGTCTCG	CACCTAACGG	AGCGAGACAA	ACTAATAGTC	6060
ACTTAATCAA	AAAACGCACC	ATATCAAAAA	CTAAAAAGTT	TGATATCATG	CGTCATGTCT	6120
TAAACTAATT	GACTATACTT	TCTATTCAAA	TGAGCTTTTA	ACCAATTGAT	TGAGCCAATC	6180
CACTCTTAAA	ACCAAAGAGC	AATTTCTCGC	TTAGCTGACT	CTTCTGAATC	TGAACCATGT	6240
ACAACATTTT	GGATAATCTC	ATTTTCTCCA	GCAGCTTTTG	CAAAATCACC	TCGAATAGTG	6300
CCTGGTAAAG	CTTCTTCTGG	ACGAGTTGCA	CCCATCATGG	TCCGCCAAGT	TTCGATTACT	6360
TTGGGACCAG	AAATGACACC	CACAAGAACT	GGACCTGAAG	TCATGAATTC	ACGAATCGGT	6420
GGGTAAAAAC	TCTGACCAAC	CAAGTCCTGA	TAGTGCTGGT	CAATCAACTC	TTCTGAAACC	6480
TGTGAACGAA	ACTCCAATTT	TTCGATTGTA	AATCCACGTT	GTTCGATGCG	CTTTAACACT	6540
TCACCCACTA	GCCCTCTTTT	TACACCATCT	GGTTTGATGA	TAAAGAATGT	TTGTTCCATA	6600
CCCGTCTCCT	TTGTCAGCTT	CTTTCTTTTA	TTTTACCACA	TTTCGTGGAA	AAATGGAGAA	6660
AGTTTTCAGA	AGAGAGAATG	AGAGAACCCT	CGGGTTCTCT	CATTCTCTCT	TATTCTACTG	6720
TTTCTTCCAC	AGTTTCAACG	GCAGTATCCA	CAACTACTTC	TGTTGTTTCT	TCATTTCCTT	6780
CTTCCTCTAC	TGGAGGATTA	AGGTATTCTT	CTTCGTTGAC	AGCATGTGGT	TCAAGGTTAC	6840

GGTAACGGGC	CATACCAGTA	CCAGCTGGGA	810 TGATCTTACC	GATGATAACA	ТТТТСТТТАА	6900
GTCCAAGGAG	ATGGTCTTTC	TTACCACGGA	TAGCTGCGTC	AGTAAGGACA	CGAGTTGTTT	6960
CCTGGAAGGA	AGCCGCTGAC	AAGAAACTGT	TTGTTTCAAG	TGAGGCTTTG	GTAATTCCCA	7020
TAAGGACTGG	GCGACCTGTC	GCTGGAACTC	CACCTGCGAT	AAGGACATCT	TTGTTGGCAT	7080
CTGTAAAGTC	ATTGATATCC	ATGAGGGTAC	CCATGAGAAG	ATCTGTATCA	CCTGGATCCA	7140
TGACACGGAC	TTTACGGATC	ATTTGACGAA	CCATTACCTC	GATGTGTTTG	TCACCGATTT	7200
CTACCCCTTG	GCTACGGTAA	ACTTTTTGTA	CTTCACCGAG	AAGGTACGTT	TCAACTGACA	7260
AGACATCACG	AACTGCAAGG	AGACGTTTTG	GTTGGATAGA	ACCTTCTGTC	AGAGCAGCAC	7320
CACGCGCTAC	TTGGCCCCCA	ACTTCGACAC	GCATACGAGC	TGTAAATGGA	ACGACATATT	7380
CACCTTCGCC	AGTTTCACCC	TTAACAAAGA	CTTTCTTGGT	ACGAGTTGAT	GCATCTTCTT	7440
CGATAGCAGT	AACTTGTCCT	TTAACCTCTG	TAATAACCGC	TTCCCCTTTA	GGATTGCGGG	7500
CTTCAAAGAT	TTCTTGGACA	CGAGGAAGAC	CCTGAGTGAT	ATCGGTATTT	GAGGCAACCC	7560
CACCTGTGTG	GAAGGTACGC	ATTGTAAGCT	GTGTACCAGG	TTCCCCGATA	GATTGGGCAG	7620
CGATTGTACC	AACTGCTTCA	CCAACTTCAA	CCGCATCACC	AGTCGCCAAG	TTGATACCGT	7680
AACAGTGACG	GCAGACACCG	TGACGAGTGT	TACATGTAAA	TACAGAACGG	ATAGTCACTT	7740
CTTCCACACC	AGCATTGACA	ATTTCACGCG	CCTTGTCTTC	TGTAATCAAT	TCATTTGGAC	7800
CAATAATCAC	TGCACCAGTT	TCTGGATGTT	TAACAGTTTT	CTTAGTGTAA	CGACCGTTGA	7860
GACGCTCTTC	GAGAGACTCG	ATCATCTCTT	TTCCTTCTGC	GATAGAACGG	ATCAAGAGAC	7920
CACGGTCAGT	TCCACAGTCG	TCCTCACGGA	TGATAACGTC	TTGGGCAACG	TCGACCAAAC	7980
GACGAGTCAA	GTAACCTGAG	TCGGCTGTCT	TAAGGCCCGT	ATCGGTCATA	CCTTTACGAG	8040
CACCGTGAGT	TGAGAAGAAC	ATTTCCAATA	CCGACAAACC	TTCGCGGAAG	TTTGAAAGGA	8100
TTGGCAATTC	CATGATACGT	CCATTCGGAG	CAGCCATCAG	ACCACGCATA	CCGGCAAGCT	8160
GTGAGAAGTT	TGAGATGTTA	CCACGGGCTC	CAGAGTCCAT	CATCATAACG	ATTGGGTTCT	8220
TAGGATCTTG	GTTAGCAATC	AAGCGTTTCT	CAAGTTTTTC	ACGGGCAGCA	CGCCATTCAG	8280
CTGTAACAGC	ATTGTAACGC	TCGTCGTCTG	TGATCATACC	ACGACGGAAT	TGTTTGGTGA	8340
TTTGTTCGAC	ACGTTTGTGT	GATTCTTCAA	TGATTTCAGC	CTTGTCATCA	ACGACTGGGA	8400
TATCGGCAAT	ACCCACTGTC	AATCCTGCAA	GAGTTGAGTG	GTGGTAACCG	AGGTTCTTCA	8460
TGCGGTCAAG	TAGGGCAGAA	GTTTCTGTCG	TACGGAAACG	TTTGAAGATT	TCAGCGATGA	8520
TATTTCCAAG	GTTTTTCTTC	TTGAATGGAG	GGTTGAGCTC	AAGATTGCTG	ATAGCTTCCT	8580
TGATATCTCC	ACCAAGTGGC	AAGAAGTATT	TAGCTGGAAC	ACCTTCTGTC	AAGTTGGCAT	8640

TGTTTGGTTC	TTGCAAGTAT	GGTAGCCCCT	CTGGCATGAT	ATCGTTGAAG	AGAATTTTAC	8700
CAACTGTTGT	AAGCAAGACC	TTATGTCTTT	GCTCTTCTGT	CCAAGGCTTG	TTGAGGCTGT	8760
CTGTTGCGAT	ACCAACACGT	GAGTGGAGGT	GAACATAACC	ATTGCGGTAA	GCCATAACCG	8820
CTTCGTCACG	GTCTTTGAAG	ACCATTCCTT	CACCTTCGCG	ACCAGCTTCT	TCCATGGTCA	8880
AGTAGTAGTT	ACCCAAAACC	ATGTCCTGAG	ATGGAGTAAC	TACCGGTTTC	CCATCTTTCG	8940
GGTTCAAGAT	GTGCTCAGCA	GCTAGCATGA	GGATACGAGC	TTCTGCTTGT	GCTTCTTCTG	9000
AAAGTGGTAC	GTGGATGGCC	ATTTGGTCCC	CGTCAAAGTC	AGCATTGTAG	GCTTCACAGA	9060
CAAGTGGGTG	CAAGCGAAGA	GCCTTACCAT	CAATCAAGAC	TGGCTCGAAG	GCTTGGATAC	9120
CCAAACGGTG	AAGGGTCGGT	GCGCGGTTCA	AAAGCACTGG	GTGTTCTTTA	ATCACTTCTT	9180
CAAGGATATC	CCAGATACGC	TCATCTCCGC	GTTCCACCAA	GCGTTTAGCT	GCTTTGACGT	9240
TTTGCACGAT	ATCACGGGCA	ACGATTTCAC	GCATGACAAA	TGGTTTAAAG	AGTTCAATCG	9300
CCATTTCACG	CGGCACACCA	CATTGGTACA	TCTTAAGAGT	TGGACCAACG	GCGATAACTG	9360
AACGTCCTGA	GAAGTCAACA	CGTTTACCGA	GCAAGTTTTG	ACGGAAGCGT	CCTTGTTTAC	9420
CTTTAAGCAT	GTGGCTCAAT	GATTTCAATG	GACGGCTACC	TGGTCCTGTG	ATTGGACGAC	9480
CACGACGACC	ATTGTCAATC	AAAGCGTCAA	CTGCTTCTTG	AAGCATACGC	TTCTCATTTT	9540
GAACGATGAT	ACCTGGTGCA	TTTAACTCAA	GCAAACGAGC	CAAACGGTTG	TTACGGTTGA	9600
TAACACGGCG	GTAAAGGTCA	TTCAAGTCAG	ATGAGGCAAA	ACGGCCACCA	TCCAACTGCA	9660
ACATTGGACG	AAGATCTGGT	GGGATAACCG	GAAGGATGTT	AAGAATCATC	CATTCAGGTT	9720
TGTTTCCAGA	CTTGTAAAAG	GCATCCAAAA	CATCCAAACG	ACGGATGGCT	TTGACACGCT	9780
TTTGTCCAGT	AGCTGTTTTC	AATTCTTCTT	TGAGTTCAGC	AATTTCTTTT	TCAAGATCTA	9840
CTTGCTTCAA	AAGGTCTTGG	ATGGCTTCCG	CACCCATCTT	GGCAACAAAT	GAACCATAAC	9900
CATATTCACG	CAAGCGCTCT	CGGTATTCGC	GCTCTGTCAT	GATAGACTTG	TGCTCAAGTG	9960
GTGTATCCTT	AGGATCAATC	ACCACATAAG	CCGCAAAGTA	GATAACTTCC	TCGAGGGCAC	10020
GAGGGCTCAT	ATCAAGGGTC	AAGCCCATAC	GGCTTGGAAT	CCCCTTGAAG	TACCAGATGT	10080
GAGATACAGG	AGCTTTCAAT	TCGATATGTC	CCATACGCTC	ACGACGAACT	TTCGTACGCG	10140
TTACTTCAAC	CCCACAGCGG	TCACAAACAA	TTCCTCTGTA	ACGAATGCGT	TTGTACTTAC	10200
CACAAGCACA	TTCCCAGTCT	TTTGTAGGAC	CAAAGATCAC	TTCATCAAAG	AGTCCTTCAC	10260
GTTCTGGTTT	CAAGGTACGA	TAATTGATTG	TTTCAGGTTT	TTTGACTTCT	CCATAAGACC	10320
ATGAACGGAC	TTTACTTGGA	GAAGCTAGGG	TGATTTGCAT	ACTTTTAAAA	CGATTTACAT	10380

			812			
CAACCACTAT	TTCTTCCCTT	ТСТАТТСТАА	GTGAACTGCT	TATTCTTGTT	CAGCAGCTTC	10440
TTCTGTTGCT	TCCGCTTTTG	TTGCTTTCTC	AGCTTCTTCA	GCTTCAAAGG	CTGCTTTAGC	10500
CTCTTGGGCT	GCTTTTTCGC	GGGCTTTTTC	AAGGTCATCT	ACGTGGATGA	CATCTTCGTC	10560
CATTCCTTCA	TCCAAGTCGC	GAAGTTCCAC	TTCTTGGTCA	TCTTCGTCTA	GGACACGCAT	10620
GTCAAGACCA	AGAGATTGCA	ATTCTTTGAC	AAGAACTCGG	AAGGATTCTG	GAACACCTGG	10680
TTTTGGAATT	GGTTTGCCTT	TTGTAATAGC	TTCATAGGCT	TTCAAACGTC	CGTTGATATC	10740
GTCCGACTTG	TAAGTCAAGA	TTTCTTGAAG	GACATTTGAC	GCACCGTAGG	CTTCAAGAGC	10800
CCAAACCTCC	ATCTCACCGA	AACGTTGTCC	ACCAAACTGA	GCCTTACCTC	CGAGTGGTTG	10860
TTGGGTAACA	GTTGAGTATG	GTCCGACTGA	ACGCGCGTGC	AATTTATCAT	CAACCATGTG	10920
GTGGAGTTTG	ATCATGTACA	TGACTCCGAC	AGAAACACGG	TTATCAAACG	GTTCACCAGT	10980
ACGTCCATCG	TAAAGGATCG	TTTTGGCATC	GCTATCCATA	CCTGCTTCTT	TAACAGTTGA	11040
CCAAAGATCT	TCAGAACTTG	CTCCATCAAA	GACTGGTGTA	GCGATGTGAA	TACCAAGAGT	11100
ACGAGCTGCC	ATACCAAGGT	GAAGCTCCAT	AACCTGACCG	ATATTCATAC	GTGATGGTAC	11160
CCCAAGTGGG	TTCAACATGA	TGTCGACTGG	AGTTCCGTCT	GGAAGGTAAG	GCATGTCTTC	11220
TACAGGAACG	ATACGAGAGA	CAACCCCTTT	GTTTCCGTGA	CGTCCGGCCA	TTTTATCTCC	11280
GACCTTAATC	TTACGTTTTT	GAGCGATGTA	AACACGAACC	AACATGTTAA	CACCTGATTG	11340
CAACTCATCT	CCATTTACAC	GTGTAAAGAT	CTTAACATCA	CGAACGACAC	CATCGGCACC	11400
GTGTGGTACA	CGAAGAGAAG	TATCACGCAC	TTCACGAGAC	TTGTCTCCAA	AGATAGCGTG	11460
CAAGAGACGT	TCTTCAGCTG	AAAGATCTTT	CTCACCCTTA	GGTGTTACTT	TACCTACAAG	11520
AATATCACCT	TCTTTAACCT	CAGCACCAAT	ACGGATAATC	CCCATTTCGT	CAAGGTCTTT	11580
GAGGGCATCT	TCACCAACGT	TTGGAATTTC	GCGAGTGATT	TCTTCAGGCC	CAAGCTTTGT	11640
ATCGCGCGTT	TCTGATTCGT	ATTCTTCAAG	GTGAACAGAT	GTGTAGACAT	CGTCCTTCAC	11700
CAAGCGTTCG	CTCATGATAA	CGGCATCCTC	GAAGTTGTAA	CCTTCCCAAG	TCATGTAGGC	11760
AACGATTGGG	TTTTGTCCAA	GCGCCATTTC	TCCATTTTCC	ATAGAAGGTC	CGTCAGCGAT	11820
GAAATCGCCT	TTTTCAACGA	CATCACCAAC	TTTTACGAGA	GTGCGTTGGT	TGTAAGCAGT	11880
ACCTGAGTTT	GAACGACGGA	ATTTTTGGAT	GTGGTAAACA	TCCAATGAAC	CATCTTCACG	11940
ACGAACTTCT	ACCTTGTCAG	CATCTGCGTA	AGTAACTTTA	CCATCATACT	GAGCAATCAC	12000
AGCCGCACCA	GAATCGTGGG	CTGCTTGGTA	TTCCATACCA	GTACCAACGT	AAGGTGCCTG	12060
AGGATTAATC	AATGGCACAG	CCTGACGTTG	CATATTGGCT	CCCATGAGGG	CACGGTTGGA	12120
GTCATCGTTT	TCCAAGAAAG	GAATACATGC	TGTCGCAACG	GCAACTACCT	GTTTTGGTGA	12180

AACGTCCATG	TAGTCAACAA	TATTAGCTGG	ATACTCTTGG	TTGACCCCTT	GGTGACGTCC	12240
CATGACAATC	TTCTCAGCAA	AGGTTCCATC	TTCATTCAGA	CGAGAGTTAG	CCTGAGCTAC	12300
AGTATATTCA	TCTTCTTCAT	CAGCTGTCAA	ССАААСААТТ	TCGTTCGTGA	CAACACCTGT	12360
TTCACGGTCA	ACCTTACGGT	ATGGTGTTTG	AACAAAACCA	TATTTGTTCA	AGTGTCCATA	12420
AGATGACAAG	TTATTGATCA	AACCGATGTT	AGGTCCTTCA	GGTGTCTCGA	TTGGACACAT	12480
ACGACCATAG	TGAGTGTAGT	GCACGTCACG	TACTTCATAT	CCAGCACGGT	CACGAGTCAA	12540
ACCACCAGGT	CCTAAGGCTG	ACAAACGGCG	TTTGTGAGAC	AACTCAGAAA	GCGGGTTGTG	12600
TTGGTCCATG	AACTGTGACA	ACTGTGATGA	ACCAAAGAAT	TCTTTAACTG	CAGCTGTTAC	12660
AGGACGGATA	TTGATAATTT	GTTGTGGTGT	CAAGACTTCA	TTGTCCTGAA	CAGACATACG	12720
TTCACGGACA	TTACGTTCCA	TACGAGAAAG	TCCCAAACGT	ACTTGGTTGG	CAAGCAATTC	12780
ACCAACCGCA	CGGATACGAC	GATTTCCAAG	GTGGTCGATA	TCATCTACAC	GGCCAAGTCC	12840
TTCAGCCAAG	TTGAGGAAGT	AGCTCATCTC	AGCAAGGATA	TCTGCAGGAG	TCACCGTACG	12900
AACCTTGTCA	TCTGGGTTAG	CATTACCAAT	GATCGTTACG	ACGCGATCTG	GATCAGTTGG	12960
AGCAATAACC	TTGAATTTTT	GAAGAACAAC	AGGCTCAGTC	ACAACGGCTG	CATCGTTTGG	13020
GATGTAGACA	ATCTTGTTCA	AGTCGCCATC	CAAATGGCTT	TCAATGCTTT	CAATCACGCT	13080
ACGAGTCATA	ATCGTACCAG	CTTCTACCAA	GATTTCTCCA	GTTTCAGGGT	CTACCAATGG	13140
CTCTGCAATG	GTTTGGTTGA	GCAAACGTGT	TTTAACATTG	AGTTTTTTAT	TGATTTTGTA	13200
ACGACCAACT	GCTGCCAAGT	CATAACGACG	TGGGTCAAAG	AAGCGAGCTA	CAAGCAAGCT	13260
ACGTGAGCTT	TCAGCCGTCT	TAGGCTCACC	TGGACGAAGG	CGTTCGTAAA	TTTCTTTCAA	13320
GGCTTCGTCT	GTACGAGAGT	CCATTGGATT	CTTGTGGATA	TCTTTTTCAA	CAGTGTTGCG	13380
AACCAATTCG	CTGTCACCAA	AGATATCAAA	GATTTCATCA	TCACCTGAGA	AACCAAGAGC	13440
ACGAACCAAG	GTTGTAAATG	GAATCTTACG	AGTACGGTCG	ATACGAGTGT	AGGTGATATC	13500
TTTTGAGTCG	CTTTCAAGTT	CCAACCAAGC	TCCACGGTTA	GGGATAACAG	TTGAACCATA	13560
GCCCACCTTA	CCATTTTTGT	CTACTTTGTC	GTTAAAGTAA	ACACCTGGTG	AGCGGACCAA	13620
CTGAGAAACG	ATAATACGTT	CACCACCATT	GATGATGAAA	GTACCCATTT	CTGTCATGAT	13680
TGGGAAATCA	CCAAAGAAAA	CTTCTTGGGT	CTTGATTTCG	CTTGTTTCTT	TATTGATCAA	13740
ACGGAAGGTT	ACAAAAATTG	GTGCTGAGTA	GCTAGCATCG	TGGATACGAG	CTTCTTCTAG	13800
CGTATATTTT	GGTTCCTTGA	TTTCATATCC	AACAAATTCC	AACTCCATTG	TGTCTGTGAA	13860
GTTTGAAATT	GGCAATACAT	CTTCAAACAC	TTCCTTAAGA	CCGTGGTCTA	GGAAAGCTTT	13920

			814			
GAATGAGTCA	GTTTGAATTT	CAATCAAATT	TGGTAAGTCA	AGAACTTCTT	TGATTCTTGA	13980
AAAACTACGA	CGGGTACGAT	GTTTCCCGTA	TTGAACGTCA	TGTCCTGCCA	AGATGATTCT	14040
CCTTTGTAAA	TAAGTTCCAA	GCCTTGTCAA	TCAGGCTTTT	CTAATCGTCA	TATGGTTGTA	14100
AACCCCTTAT	CACCGTGTCC	TCTTGACGAA	TTTTCAGAAT	CTTTAAGCCT	CTGTTACAAA	14160
TGCTCAAAAT	CTTGAAAAAA	AGCACAAAAA	GAGCAGCTAA	ATCTGACTTT	TTCAGAAGAT	14220
TTAACTGCTG	TGAGCCTTGT	CTGGACAATA	TTTCAGACAA	AACCTACGAC	AAATGATTAC	14280
CCATATTATA	CCCTATTTAG	CTAGATTTTT	CAAGGGGTTT	CAGTAGGTTT	TTGGTAAATT	14340
TTTTCCCATA	GAAAACTTGG	CATCACATTC	GAATCACGCT	ATGGTACAAA	AAACTGAAAA	14400
AACTATTGAC	TGAAAATCAT	TTTCAAGGTA	ТААТААТААА	CGTTAAGGCG	GTATAGCCAA	14460
GTGGTAAGGC	ACGGCTCTGC	AAAAGCTTGA	TCGTCGGTTC	AAATCCGTCT	ACCGCCTTCT	14520
ATAACTTGAT	TTATCAGGTT	TCAAATGAAC	AGAAAGCCCA	ATTTGAAGGG	CTTTTTTTAT	14580
TTTCCCTCGA	ATAAATACGT	ATAACTTTAA	AAACTTTTGG	AGCGAGTTTG	TGGCAGAGTT	14640
CTTTCCATGG	CATAATTCCC	TTTTGAAATC	AG			14672

## (2) INFORMATION FOR SEQ ID NO: 112:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 7902 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 112:

AGGAGACTAT TCAAGCCCAA	A ATTGAGTAGC	CCAGCAAAGA	CTGTATAGAC	TGTGATACGT	60
TTTTCATAGC CATTGGTAAA	A GAGAATTTGG	GAACCAAGAA	TGGTATCTAA	GGCCAGGATA	120
ATCGTACGAA AAGCGAAGAG	G AGAGGTCAAG	ATGCCGCCTC	CGATATATTT	TTCACTACCG	180
TAAAGTAGGA TGGCATTTG	TCCTAAAACC	ATGAGTCCAA	AACTCAGTGG	AATGATAÄAG	240
AAGTTAAAGA TTCGACTAC	CTCTATTAACC	AGAGAAACAT	AGGCTTCTTT	GTCTCCTTTC	300
CCCAGATAGT AACTGAGACO	AGGCACACTC	ACTCCAATTG	CACCTGTTAC	AACCCCAGCT	360
ATAACGGTCA CAATTCGCTC	G AGCTATGGTA	TAGTAACTAA	CGTTGACATC	AATCCCTGTT	420
TTAACGAGGA AGAGGCGATO	TAAAAAAGTG	AAGAGCATAT	TGGCATTGGC	AAAGACTAAC	480
ATGGCTGTCA GAGGGAGAAA	GAGTGGTTTA	AAATCACTTA	GGTGAATTTT	AACAAGTTTG	540
ATGTCTCTTT TAATCCAAAA	ATAACTAATC	AGGTAGTTAA	TCAGCGTCGA	TAAACTCATC	600
ACAAGTGTAT AGACAACAA	ATCGTGTTCA	TTTTTAACAA	ATAAGAAAAT	AGAGACCAGC	660

ATCAGGATAC GGATGAAGGC	AGTTTTGTAA	AAGAGAAAAC	TGTAATTTTC	CAGAGCTTCA	720
TTGACCCATT CGATTGAAAA	AATCTGGGCA	ATGAGTTGAA	TCCCCATAAC	AAGGTAGACC	780
TTTTTGACGA TTGGATTATC	AGTAAAGAAG	AGAGGATAGG	CTAGGATATA	GACAGCAGTG	840
GTCAAAATCG TACAAGCGAT	GCACAAATAA	AAAAGACTAG	AAAAGGTTCT	GTTAAGATCT	900
TTTTTGTTAT CCTTGACATT	ACTGATAGCC	CTTAAACCGT	AGTTATAGAC	ACCATAAGTT	960
GCAAAGGGCA AGAAAAATGA	CAAAATAGTG	TCGACTGAGT	TGAAGTAACC	ATAGTCAGTT	1020
CGGTCCAAGA CACGCGCGAC	ATAGGTTCCA	GTTAGGATGG	GAAAAATAAT	ATTCAAGACA	1080
CGAATTCCCA TGTAAGATAG	AGCATTTAAT	TTTATACTTT	TCATTCAATT	TACCTCGTTT	1140
ТТСАТТАТАТ САТАААСТТА	GCTAATAAGA	AATGAAGGC	AGTAAGTCAA	GTAATCACTT	1200
TGAAGTTTCA AATCTTAAGT	TTTAAGTTTT	CTTTAAGGAA	AGTATATTAT	TCTGAAGGAC	1260
TCTAAAATTT CGCAGCCATT	TATTAGTAAT	TGCTACAGAA	TTCCTAGTCA	TTACTAGAAA	1320
TGGACTAGTT TCTTTGAATA	ATAGAACTGC	ATAATTCTCC	TATTCTAGAA	GGGGAGGACC	1380
AGTATTTCTT TTATGATAGG	ACTAGATTGT	GGTATAATAG	AGAGAATAAG	TTTTTTTAGT	1440
AAGACAAAGG AGAAAATAGA	TGATTTATGC	AGGAATTCTT	GCCGGTGGAA	CTGGCACACG	1500
CATGGGGATC AGTAACTTGC	CAAAACAATT	TTTAGAGCTA	GGTGATCGAC	CTATTTTGAT	1560
TCATACAATT GAAAAATTTG	TCTTGGAGCC	AAGTATTGAA	AAAATTGTAG	TTGGTGTTCA	1620
TGGAGACTGG GTTTCTCATG	CAGAAGATCT	TGTAGATAAA	TATCTTCCTC	TTTATAAGGA	1680
ACGTATCATC ATTACAAAGG	GTGGTGCTGA	CCGCAATACA	AGTATTAAGA	ACATCATTGA	1740
AGCCATTGAT GCTTATCGTC	CGCTTACTCC	AGAGGATATC	GTTGTTACCC	ACGATTCTGT	1800
TCGTCCATTT ATTACACTTC	GCATGATTCA	GGACAATATC	CAACTTGCCC	AAAATCATGA	1860
CGCAGTGGAC ACAGTGGTAG	AAGCGGTTGA	TACTATCGTT	GAAAGTACCA	ATGGTCAATT	1920
TATTACAGAT ATTCCAAATC	GTGCTCACCT	TTATCAAGGA	CAAACACCTC	AAACATTCCG	1980
TTGCAAGGAC TTCATGGACC	TTTATGGATC	TCTTTCTGAT	GAAGAGAAGG	AAATCTTGAC	2040
AGATGCATGT AAAATCTTTG	TGATCAAAGG	AAAAGATGTG	GCTTTGGCCA	AAGGTGAATA	2100
CTCAAATCTG AAGATTACAA	CCGTAACAGA	TTTGAAGATT	GCAAAAAGTA	TGATTGAGAA	2160
AGACTAGTAA AATGATTAAT	CAAATTTATC	AACTAACTAA	GCCTAAGTTT	ATCAATGTCA	2220
AATATCAGGA AGAGGCTATT	GACCAAGAGA	ATCATATCCT	TATCCGTCCC	AACTACATGG	2280
CTGTCTGTCA TGCGGATCAG	CGTTACTATC	AGGGAAAACG	TGATCCCAAG	ATTTTGAATA	2340
AAAAGCTTCC AATGGCAATG	ATTCACGAGT	CATGTGGAAC	CGTCATTTCT	GACCCGACCG	2400

GAACCTACGA	GGTTGGTCAA	AAAGTTGTCA	816 TGATTCCCAA	TCAGTCTCCT	ATGCAGAGTG	2460
ATGAAGAATT	CTATGAAAAC	TACATGACAG	GGACCCATTT	CTTGTCTAGT	GGATTTGATG	2520
GCTTTATGAG	AGAGTTTGTT	TCTCTCCCTA	AAGATCGTGT	GGTGGCTTAT	GATGCTATTG	2580
AAGATACGGT	TGCAGCCATT	ACAGAGTTTG	TCAGTGTGGG	CATGCACGCT	ATGAATCGTC	2640
TATTGACTCT	TGCTCATAGC	AAGCGGGAGC	GGATCGCCGT	TATTGGAGAT	GGAAGTTTAG	2700
CTTTTGTGGT	TGCCAATATT	ATCAACTATA	CTTTGCCAGA	AGCAGAGATT	GTGGTTATTG	2760
GTCGTCATTG	GGAAAAGTTG	GAACTCTTCT	CATTTGCCAA	AGAATGCTAT	ATTACGGATA	2820
ATATTCCTGA	AGATTTGGCC	TTTGACCATG	CTTTTGAATG	TTGTGGTGGT	GATGGTACTG	2880
GACCAGCTAT	TAATGACTTG	ATTCGCTACA	TTCGTCCTCA	GGGAACGATT	CTCATGATGG	2940
GAGTTAGCGA	ATATAAAGTC	AATCTCAATA	CTCGCGATGC	CTTAGAAAAG	GGCTTGATTT	3000
TGGTTGGGTC	ATCTCGTTCT	GGTCGCATTG	ATTTTGAAAA	TGCTATCCAA	ATGATGGAAG	3060
TCAAGAAATT	TGCCAATCGT	СТТАААААТА	TCCTTTATCT	AGAAGAACCT	GTAAGAGAAA	3120
TTAAAGATAT	TCATCGTGTC	TTTGCAACCG	ATTTAAACAC	AGCCTTTAAA	ACAGTGTTTA	3180
AGTGGGAAGT	ATAAGTACTG	GAGGTTAATT	GTGGAGAAAA	TCATTAAAGA	AAAAATTTCT	3240
TCCTTACTTA	GTCAAGAAGA	GGAAGTCCTC	AGTGTTGAAC	AACTGGGTGG	AATGACCAAT	3300
CAAAACTATT	TGGCCAAAAC	AACAAATAAG	CAATACATTG	TTAAATTCTT	TGGTAAAGGG	3360
ACAGAAAAGC	TTATCAATCG	ACAAGATGAA	AAGTACAATC	TTGAACTACT	AAAGGATTTA	3420
GGCTTAGATG	ТАААААТТА	TCTTTTTGAT	ATTGAAGCTG	GTATCAAAGT	AAATGAGTAT	3480
ATCGAATCTG	CGATTACGCT	TGATTCAACG	TCAATCAAGA	CCAAGTTCGA	CAAAATTACT	3540
CCAATATTAC	AAACTATTCA	TACGTCTGCT	AAGGAATTAA	GAGGAGAATT	TGCTCCTTTT	3600
GAAGAAATCA	AAAAATACGA	ATCCTTGATT	GAAGAACAAA	TTCCTTATGC	CAACTATGAA	3660
TCTGTTAGAA	ATGCAGTCTT	CTCCTTAGAG	AAAAGACTGG	CTGACTTAGG	TGTTGACAGA	3720
AAATCTTGTC	ATATCGATTT	GGTGCCTGAA	AACTTTATCG	AATCACCTCA	AGGACGACTT	3780
TATTTGATTG	ACTGGGAATA	TTCATCAATG	AATGATCCAA	TGTGGGATTT	GGCTGCCCTC	3840
TTTTTAGAGT	CTGAATTCAC	TTCCCAAGAG	GAAGAAACTT	TCTTATCTCA	CTATGAGAGT	3900
GACCAAACAC	CGGTTTCTCA	TGAAAAGATT	GCTATTTATA	AAATTTTACA	AGATACTATT	3960
TGGAGTCTAT	GGACTGTCTA	TAAGGAAGAG	CAAGGTGAAG	ATTTTGGTGA	CTATGGTGTG	4020
AATCGTTACC	AAAGAGCTAT	TAAAGGTTTG	GCTTCTTATG	GAGGTTCAGA	TGAAAAGTAA	4080
AAACGGAGTT	CCTTTTGGCC	TTCTCTCAGG	TATTTTCTGG	GGCTTGGGTC	TAACGGTTAG	4140
TGCTTATATC	TTTTCGATTT	TTACAGATTT	GTCACCCTTT	GTGGTGGCTG	CAACTCATGA	4200

TTTTTTGAGC	ATCTTTATCT	TACTAGCTTT	TCTCTTGGTA	AAAGAAGGGA	AAGTTCGCCT	4260
CTCAATTTTC	TTAAATATTC	GCAATGTCAG	TGTTATCATC	GGAGCCTTGC	TAGCAGGCCC	4320
TATCGGTATG	CAGGCCAATC	TTTATGCAGT	TAAGTATATC	GGAAGTTCTT	TAGCTTCATC	4380
TGTATCGGCT	ATTTACCCTG	CGATTTCAGT	TCTATTGGCT	TTCTTCTTTT	TGAAGCACAA	4440
GATTTCGAAA	AATACTGTAT	TTGGGATTGT	CTTGATTATT	GGAGGGATTA	TTGCTCAGAC	4500
CTATAAGGTT	GAACAGGTTA	ATTCTTTCTA	CATTGGGATT	CTTTGTGCTT	TGGTTTGTGC	4560
TATTGCATGG	GGAAGTGAGA	GTGTTCTTAG	CTCTTTTGCC	ATGGAAAGTG	AATTGAGTGA	4620
AATCGAAGCC	CTCTTAATCC	GTCAAGTAAC	TTCGTTCTTG	TCCTATCTTG	TGATTGTGCT	4680
CTTCTCTCAT	CAGTCATTTA	CTGCAGTAGC	CAATGGACAA	TTGCTAGGTC	TCATGATTGT	4740
TTTTGCAGCC	TTTGATATGA	TTTCCTACTT	GGCTTATTAT	ATCGCTATCA	ATCGCTTGCA	4800
ACCAGCCAAG	GCTACAGGCT	TGAACGTGAG	CTATGTAGTA	TGGACGGTCT	TGTTTGCAGT	4860
TGTTTTCTTG	GGTGCACCGC	TAGATATGCT	GACCATTATG	ACGTCACTTG	TCGTCATTGC	4920
TGGAGTTTAT	ATTATTATTA	AAGAATAAAG	GAGATTCGTG	TGAAAGCCAT	TATCTTAGCA	4980
GCGGGATTGG	GAACTCGCTT	GCGTCCTATG	ACTGAAAATA	CCCCTAAAGC	CTTGGTTCAG	5040
GTTAATCAAA	AACCTTTGAT	TGAGTACCAA	ATTGAGTTTC	TCAAAGAAAA	AGGAATCAAT	5100
GACATCATCA	TCATTGTTGG	TTATCTTAAA	GAACAATTCG	ATTACTTGAA	AGAGAAATAC	5160
GGTGTTCGTC	TCGTTTTCAA	TGATAAATAC	GCTGACTACA	ATAACTTTTA	CTCTCTCTAT	5220
CTTGTAAAAG	AAGAATTGGC	CAACAGCTAT	GTTATTGATG	CTGACAATTA	TCTCTTTAAA	5280
AATATGTTCC	GCAATGATTT	GACACGTTCG	ACTTATTTTA	GTGTTTATCG	TGAAGATTGT	5340
ACCAACGAAT	GGTTCTTGGT	TTATGGAGAT	GACTACAAGG	TTCAAGACAT	TATTGTTGAT	5400
AGCAAGGCAG	GTCGCATCCT	TAGTGGTGTA	TCCTTCTGGG	ATGCTCCAAC	TGCAGAAAAG	5460
ATTGTCAGCT	TTATCGACAA	GGCTTATGTA	AGTGGTGAAT	TTGTTGATCT	CTATTGGGAC	5520
AATATGGTTA	AGGATAATAT	CAAAGAGCTA	GATGTCTATG	TTGAAGAATT	AGAAGGCAAT	5580
AGCATTTATG	AGATCGATAG	TGTCCAAGAC	TATCGTAAAT	TAGAAGAAAT	TCTTAAAAAC	5640
GAAAATTAAA	GATTCCAACA	TCTGACAAAA	TAGTCGGATG	TTTTTTGATT	TTTTACGAAC	5700
TTTTACGAAT	AGATAGATGA	GTAGAAAAAG	AAATGGAGTT	ATTTATGAAA	ATCACAAACT	5760
ATGAAATCTA	TAAGTTAAAA	AAATCAGGTT	TGACCAATCA	ACAGATTTTG	AAAGTGCTAG	5820
AATACGGTGA	AAATGTTGAT	CAGGAGCTTT	TGTTGGGTGA	TATTGCAGAT	ATCTCAGGTT	5880
GCCGTAATCC	AGCCGTTTTT	ATGGAACGTT	ATTTTCAGAT	AGACGATGCG	CATTTGTCGA	5940

AAGAGTTTCA	AAAATTTCCA	TCTTTCTCTA	818 TTTTAGATGA	CTGTTATCCT	TGGGATTTGA	6000
GTGAAATATA	TGATGCGCCT	GTACTTTTAT	TTTACAAGGG	AAATCTTGAC	CTCCTGAAAT	6060
TCCCGAAGGT	AGCGGTCGTG	GGCAGTCGTG	CTTGTAGCAA	ACAGGGAGCT	AAGTCAGTTG	6120
AAAAAGTCAT	TCAAGGCTTG	GAAAATGAAC	TGGTTATTGT	CAGTGGTCTG	GCCAAGGGCA	6180
TTGACACAGC	AGCTCATATG	GCAGCTCTTC	AGAATGGCGG	AAAAACCATT	GCAGTGATTG	6240
GAACAGGACT	GGATGTGTTT	TATCCTAAAG	CCAATAAACG	CTTGCAAGAC	TACATCGGCA	6300
ATGACCATCT	GGTTCTAAGT	GAATATGGAC	CTGGTGAACA	ACCTCTGAAA	TTTCATTTTC	6360
CTGCCCGTAA	TCGCATCATT	GCTGGACTTT	GTCGTGGTGT	GATTGTAGCA	GAGGCTAAGA	6420
TGCGTTCAGG	TAGTCTCATT	ACGTGTGAGC	GAGCAATGGA	AGAAGGACGC	GATGTCTTTG	6480
CTATTCCTGG	TAGCATTTTA	GATGGACTAT	CAGACGGTTG	CCATCATTTG	ATTCAAGAAG	6540
GAGCAAAATT	GGTCACCAGT	GGGCAAGATG	TTCTTGCGGA	ATTTGAATTT	TAAAAATGAC	6600
CTAAGCTAGA	ATTCTAAGAA	AAAATCAATT	TTAAGAGAAA	ATGAACCCAA	CATTTCCATA	6660
ATAAAACGCA	TATTAGCAAG	TTTTTAACAC	TTGATAATAT	GCGTTTTTTC	TAAGTGGATT	6720
AGTAGAGTAG	AGGATTTTTC	TCATATAATA	CTCTTCGAAA	ATCTCTTCAA	ACTACGTCAG	6780
CTTCCATCTG	CAACCTCAAA	ACAGTATTTT	GAGCgaCTtC	GTCAGTCTTA	TCTACAACCT	6840
CAAAGCAGTG	CTTTGAGCAA	CCTGTGGCTA	GCTTCCTAGT	TTGCGCTTTG	ATTTTCATTG	6900
AGTATAAGGG	AAAGTATAGT	GAATTGAAAT	AAGATGTGAA	CAACTCTATC	AGGAAAGTCA	6960
AATTAATTTA	TAGAAATATT	TTAGCAGCCA	AGGTGTACTG	TTATAGATTC	AATTACACTA	7020
TAATTTAGTG	TAATTGAGAA	AGGAGAAATG	ATTGTGATTG	ATGTTGGCTA	GGTTATGTTC	7080
AATGATTCCT	ACCGTCTCAA	ATCTTGTCAG	TAAGGAAAAA	TAAATTCTTC	AAAAGTAGAG	7140
ATTACAAGGC	TTGTTTAAGA	AAGAATTCAA	AGACCTTGAC	АААТАААААТ	AAAATGGTTA	7200
ТТАТАААААА	TGGTCTGAAA	TAGATGATGA	TACTTTTCGA	AAATCTCTTC	AAATACGTCA	7260
GCTCAGCTTT	GCCTTGCTGT	GTTTTGAGCA	AGCTACGGTT	AGCTTCCGAG	TTTGATTT''C	7320
ATTTACTAGA	AATGAAACTG	ATGAGAGATA	TCAGTAGACA	TTTGAGTCAG	GATATTATGG	7380
AAAATGATAA	AAAGAGCTCG	TGAGATTGGC	ATATCAGACT	ACTAAAGTAT	TGAGTTTGTT	7440
AGGATTTTAG	CGACTAGTTA	GCTGGGAAAG	GAAGATATTT	GTGACAAATA	ATAAACTGTA	7500
TTCGTTGATA	GAATTTAGAA	АТААААТАТА	TGAAGAATTA	GAACTTTCCA	GAAGTGATTT	7560
AGCGATTTTA	CTATGTGCCA	TGCTTATCGC	CTCTATCGGA	TTAAATATGG	ATTCGACTCC	7620
CGTGATTATT	GGAGCCATGT	TAATCTCTCC	TTTGATGACA	CCTATTCTGG	GAGTGGGGCT	7680
CTCTCTAGCT	ATATTTGATT	TTAAATTGTT	AAGAAAATCT	TTTAAAATAT	TAGCTATTCA	7740

819

AATTCTTGCC AGTCTAATAG CTTCAACACT TTATTTTTAT CTTTCTCCCA TTTCGTATGC 7800 TAGTTCGGAG ATTGTTGCTA GAACCTCTCC GACTATTTGG GATGTTCTCA TTGCTTTTGT 7860 AGGAGGGATA GCAGGTATCA TTGGTGCTAG GAAAAAAGAG AC 7902

# (2) INFORMATION FOR SEQ ID NO: 113:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18627 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 113:

GAAGTTGAAA TGGCCAGCTG ATG	AGCAATA TCGGTCATAG	AAATCTTCTC	AATCAACTTT	60
TGCGCAATTT TTTGGTTGAT AAT	ACGAGGA ATTTGGTGAT	TTTTCTTGAC	GATAGAAGTT	120
TCAGCGACCA TCATTTTTGA ACA	GTGATAG CACTTGAAAC	GACGCTTTCT	AAGTAGAATT	180
CTAGTAGGCA TACCAGTTGT CTC	AAGGTAA GGAATCTTAG	ACGGTTTTTG	AAAGTCATAT	240
TTCTTCAATT GGTTTCCGCA CTC	AGGGCAA GATGGGGCGT	CGTAGTCCAG	TTTGGCGATG	300
ATTTCCTTGT GTGTATCTTT ATT	GATGATG TCTAAAATCT	GGATATTAGG	GTCTTTAATG	360
TCTAGTAATT TTGTGATAAA ATG	TAATTGT TCCATATGAA	TCTTTCTAAT	GAGTTGTTTG	420
GTCGCTTTTC ATTATAGGTC ATA	TGGGACT TTTTTTCTAC	AATAAAATAG	GCTCCATAAT	480
ATCTATAAGG GATTTACCCA CTA	CAAATAT TATAGAGCCA	AAAATCCTTT	GTTTACTAAA	540
CAAGGGATTT TTCTTTTGTC TCT	GCTCCTT TTTTGATATA	ATAGTTCTAT	GTTAAAATCA	600
GAAAAACAAT CACGTTATCA AAT	GTTAAAT GAAGAATTGT	CCTTCCTATT	GGAAGGCGAA	660
ACCAATGTTT TGGCTAATCT TTC	CAACGCC AGTGCTCTCA	TAAAATCACG	TTTTCCTAAT	720
ACCGTATTTG CAGGCTTTTA TTT	GTTCGAT GGAAAGGAAT	TGGTTTTAGG	CCCCTTCCAA	780
GGAGGTGTTT CCTGCATCCG TAT	TGCACTA GGCAAGGGTG	TTTGTGGTGA	GGCAGCTCAC	840
TTTCAGGAAA CTGTTATTGT TGG	AGATGTG ACGACCTATC	TCAACTATAT	TTCTTGTGAT	900
AGTCTAGCTA AAAGTGAAAT TGT	GGTGCCG ATGATGAAGA	ATGGTCAGTT	ACTTGGAGTT	960
CTGGATCTGG ATTCTTCAGA GAT	TGAGGAT TACGATGCTA	TGGATCGAGA	TTATTTGGAA	1020
CAATTTGTCG CTATTTTGCT TGA	AAAGACA GCATGGGACT	TTACGATGTT	TGAGGAAAAA	1080
TCTTAATGTA TCAAGCACTT TAT	CGAAAAT ATAGAAGTCA	AAACTTCTCC	CAGTTAGTTG	1140
GTCAAGAAGT TGTGGCTAAG ACT	CTTAAAC AAGCGGTGGA	GCAAGAGAAA	ATAAGTCACG	1200

820 CTTATCTTTT TTCTGGTCCT CGTGGAACGG GAAAAACCAG TGTTGCTAAA ATCTTTGCCA 1260 AGGCTATGAA CTGTCCCAAT CAAGTGGGTG GCGAACCTTG CAATAACTGC TATATTTGTC 1320 AAGCAGTGAC GGACGGTAGT TTAGAAGATG TCATTGAAAT GGATGCAGCT TCTAATAATG 1380 GGGTAGATGA AATTCGCGAA ATTCGTGATA AATCTACCTA TGCGCCTAGC CTTGCTCGTT 1440 ATAAGGTTTA TATCATAGAT GAGGTTCACA TGCTGTCTAC AGGGGCTTTT AATGCCCTCC 1500 TAAAGACGCT GGAAGAACCA ACACAGAATG TAGTCTTTAT TTTGGCCACT ACTGAATTGC 1560 ACAAGATTCC TGCTACTATT CTATCCCGTG TGCAACGTTT TGAGTTTAAA TCAATTAAGA 1620 CACAGGATAT TAAGGAACAT ATTCACTATA TCTTAGAAAA AGAAAATATC AGTTCTGAAC 1680 CAGAGGCTGT GGAAATCATT GCCAGACGGG CGGAAGGTGG AATGCGGGAC GCCTTGTCTA 1740 TTTTGGATCA AGCCCTGAGT TTGACACAGG GAAATGAGCT GACGACTGCT ATCTCTGAAG 1800 AAATTACTGG CACCATTAGC CTATCAGCCT TGGATGATTA TGTGGCGGCC TTGTCTCAAC 1860 AGGATGTTCC CAAAGCTTTG TCTTGCTTGA ATCTTCTTTT TGACAATGGT AAGAGCATGA 1920 CTCGTTTTGT GACCGATCTT TTGCACTATT TAAGAGACTT GTTAATTGTT CAAACAGGGG 1980 GAGCAAATAC TCATCATAGT TCAGTCTTTG TAGAAAATTT GGCACTTCCT CAAAAAAATC 2040 TGTTTGAAAT GATTCGCTTA GCAACAGTGA GTTTAGCAGA TATTAAGTCT AGTTTGCAAC 2100 CCAAGATTTA TGCTGAAATG ATGACCGTCC GTTTGGCGGA AATCAAGTCC GAACCAGCTC 2160 TATCAGGAGC GGTTGAAAAT GAAATTGCTA CGCTGAGACA GGAAGTTGCC CGTCTCAAAC 2220 AAGAGCTTTC TAATGTAGGT GCGGTTCCTA AACAAGTTGC ACCAGCTCCT AGTCGACCAG 2280 CTACGGGCAA AACAGTCTAT CGTGTCGATC GCAATAAAGT GCAATCTATC TTACAAGAGG 2340 CCGTCGAAAA TCCTGATTTA GCACGTCAAA ATTTAATTCG TTTGCAGAAT GCCTGGGGAG 2400 AGGTAATTGA AAGTCTAGGT GGGCCGGACA AGGCTCTGCT AGTTGGTTCT CAACCGGTTG 2460 CTGCCAATGA ACACCATGCT ATTCTTGCTT TTGAGTCTAA CTTCAATGCT GGTCAAACTA 2520 TGAAACGAGA CAATCTCAAT ACCATGTTTG GTAATATCCT CAGTCAGGCG GCAGGTTTTT 2580 CACCTGAGAT TTTAGCTATT TCCATGGAGG AATGGAAAGA AGTTCGCGCA GCCTTTTCAG 2640 CCAAAGCCAA ATCTTCTCAA ACTGAAAAAG AAGTAGAAGA AAGCCTGATT CCAGAAGGAT 2700 TTGAATTTTT GGCTGATAAA GTGAAGGTAG AGGAAGACTA AAGAAAGATT TCATGATACA 2760 ATAAGTTTAT GAATAAACAA CAATTTATTA TTATGGCGCT GTTTACAGCT GCTGAGACCT 2820 ATTTTTTCAA TGAAGCCTGG ATGACTGGCC GCTATATTAT GGCAGCCTTT TGGGCAATTT 2880 TACTCTTTAG AAATTTCCGA GTCAGTTATG TGATGGGCAA AATCGTTGAT GTCATCGATC 2940 AGCATTTTAA TAGGAAAGAC TAGCCCTCAG CTTCCAGACA AAATCAAAGC CTTTTAGGCT 3000

TTTTTTT	GTT ATACTAGAA	A AGTATATTTA	TAGAATTTTT	GCTCTATTTC	TGGGGAAATC	3060
AGACGTTT	TT CTAGTAAGT	A CTGTAAAAGT	TTTGAAAAAG	AAAGGAACTA	TCATGTCAGT	3120
ATTAGAGA	ATC AAAGATCTT	C ACGTTGAGAT	TGAAGGAAAA	GAAATTTTAA	AAGGGGTTAA	3180
CCTGACCC	CTG AAAACAGGA	G AAATTGCCGC	TATCATGGGA	CCAAATGGTA	CAGGTAAATC	3240
GACTCTTT	CT GCCGCTATC	A TGGGAAATCC	AAACTATGAA	GTAACTAAAG	GTGAAGTTTT	3300
GTTTGATO	GC GTAAACATC	TTGAGTTGGA	AGTGGATGAG	CGTGCGCGTA	TGGGACTTTT	3360
CCTTGCT	TG CAATACCCA	CAGAAATCCC	TGGAATTACC	AATGCTGAGT	TTCTTCGTGC	3420
CGCTATGA	AT GCGGGTAAA	AAGATGATGA	GAAGATTTCA	GTTCGTGAGT	TTATTACTAA	3480
GCTAGATO	AAAATGGAA	TGCTCAACAT	GAAAGAAGAA	ATGGCAGAGC	GTTACCTCAA	3540
CGAAGGCT	TC TCTGGTGGT	G AGAAAAAACG	CAATGAAATT	CTTCAACTTT	TGATGTTGGA	3600
GCCAACAT	TT GCTCTTTTG	G ACGAGATTGA	CTCAGGTCTT	GATATTGACG	CTCTTAAAGT	3660
TGTGTCTA	AA GGTGTCAATO	G CCATGCGTGG	TGAAGGTTTT	GGTGCTATGA	TCATCACTCA	3720
CTACCAAC	GT CTTTTGAACT	TATATCACACC	TGATGTGGTA	CACGTGATGA	TGGAAGGTCG	3780
TGTTGTCC	TT TCTGGTGGTC	CAGAATTGGC	TGCGCGTTTG	GAACGTGAAG	GATACGCAAA	3840
ATTAGCTO	AA GAACTTGGCT	ACGACTACAA	GGAAGAATTG	TAATTCCCTC	GTATCTTTTA	3900
GGAGAAGT	'AA ATGACTAGAC	S AAAATATTAA	ACTTTTTTCA	GAAATGCACG	CTGAACCAAG	3960
CTGGTTGG	CT GATCTCCGTC	AAAAAGCTTT	TGACAAGATT	GAGACTTTGG	AATTACCAGT	4020
TATTGAGT	GT GTCAAATTCC	CACCGTTGGAA	TCTGGGTGAT	GGAACGATTA	CAGAAAATGA	4080
GCCATCAG	CA AATGTTCCAC	ATTTCACAGC	TTTAGATCAT	CACTTGAAGT	TGGTGCAAGT	4140
AGGAACTO	AA ACTGTTTTC	AACAAACTCC	AGTTGAGTTA	GCTGAACAGG	GTGTTGTCTT	4200
CACAGACT	TT CACTCAGCTT	TAGAAGAAAT	TCCAGAGCTG	ATCGAAGAAT	TCTTCATGTC	4260
ATCTGTTA	AG TATGATGATG	ACAAGTTGGC	GGCTTACCAC	ACAGCTTACT	TTAACAGTGG	4320
TGCTGTAC	TC TATATTCCAG	ATAACGTAGA	AATCACAGAG	CCAATTGAAG	GAATTTTCTA	4380
CCAAGATA	GC GATAGCAATO	TGCCGTTTAA	CAAGCATATT	ATGATTATCG	TTGGTAAAAA	4440
TTCTAAGA	TT AGTTATCTGG	AGCGTTTAGA	GTCACGCGGT	GAAGGAAGTG	ACAAAGCAAC	4500
TGCCAATA	TC ACAGTGGAAG	TGATTGCACG	TTCTGGTGCG	CAAGTCAAGT	TTGCTGCTAT	4560
CGACCGTC	TA GGTGAAAACG	TCACTGCCTA	CATTAGCCGT	CGTGGTAAAT	TAGGCAACGA	4620
TGCAAGTA	TT GACTGGGCTA	TCGGTGTCAT	GAACGAAGGA	AATGTCGTTG	CTGATTTTGA	4680
TAGTGACT	TG ATTGGTAATG	GTAGCCATGC	TGACCTCAAG	GTTGTAGCTC	TTTCAAGTGG	4740

822 TCGTCAGGTA CAAGGGATTG ATACTCGTGT AACTAACTAT GGCTGCAACT CAATCGGAAA 4800 CATTCTACAA CATGGGGTTA TCCTTGAAAA AGCAACTTTG ACTTTCAATG GTATCGGCCA 4860 CATCATCAAG GGTGCTAAGG GAGCAGATGC GCAACAAGAG AGCCGTGTTC TCATGCTTTC 4920 AGACCAAGCG CGTTCAGATG CTAACCCAAT TCTTTTGATT GATGAAAATG ACGTAACTGC 4980 AGGCCATGCA GCCTCTATTG GTCAGGTAGA TCCAGAAGAT ATGTACTACC TCATGAGTCG 5040 TGGCTTGGAT AAGGCAACTG CAGAGCGTTT GGTTGTTCGT GGTTTCCTTG GATCTGTTAT 5100 CGTGGAGATT CCAGTCAAGG AAGTTCGTGA TGAAATGATT GCAACTATCG AAGAGAAATT 5160 GTCAAAACGC TAAGGGGCAG CCTATGTTAG ATGTAGAAGC GATTCGCAAG GATTTTCCAA 5220 TTTTAGATCA GATTGTCAAT GATGAACCTC TGGTCTATCT GGACAATGCT GCGACGACAC 5280 AAAAACCACT AGTAGTTCTG AAAGCTATTA ACAGCTACTA TGAGCAGGAC AATGCCAATG 5340 TTCACCGTGG TGTCCATACC TTAGCGGAAC GAGCGACAGC TTCTTATGAA GCTGCTCGTG 5400 AAACCATTCG TAAGTTTATT AATGCAGGCT CTACAAAGGA AGTTCTCTTT ACCAGAGGAA 5460 CGACAACCAG CCTTAACTGG GTGGCACGCT TTGCTGAGGA AATTCTCACT GAGGGAGACC 5520 AGGTCTTGAT TTCAGTAATG GAACACCATT CTAATATCAT TCCATGGCAG GAAGCTTGTC 5580 GAAAGACTGG AGCAGAGCTT GTCTATGTCT ATCTTAAAGA CGGTGCCTTG GATATGGAGG 5640 ATTTGCGAGC TAAATTGACT GATAAGGTTA AATTTGTTTC CCTAGCTCAT GCCTCCAATG 5700 TTCTTGGTGT GGTCAATCCG ATCAAGGAAA TCACTCAATT AGCCCACCAA GTTGGGGCAA 5760 TTATGGTAGT GGATGGTGCT CAATCTACAC CTCATATGAA GATTGATGTC CAGGACTTGG 5820 ATCTGGACTT TTTCGCCTTT TCGGGTCACA AGATGGCTGG TCCGACTGGT ATCGGTGTCC 5880 TTTACGGCAA AGAAAAGTAT CTTGAGCAAA TGTCTCCAGT AGAATTTGGC GGCGAGATGA 5940 TTGATTTGT CTACGAGCAA TTTGCTAGTT GGAAGGAATT GCCTTGGAAA TTTGAGGCTG 6000 GAACGCCAAA TATGGCAGGA GCTATTGGAC TTGCGACTGC AGTTGATTAT CTGGAAAAGA 6060 TTGGTATGGA TGCCGTTGAA GCTCATGAAC AGGAATTGAT TGCGTACGTC TATCCAAAAC 6120 TGCAGGCAAT TGAGGGATTG ACCATTTACG GTTCTCAGGA TTTGGCTCAA CGTTCGGGTG 5180 TTATTGCCTT TAACCTAGGT GATCTCCATC CTCACGATCT TGCGACGGCT CTGGATTATG 6240 AAGGAGTGGC TGTTCGTGCT GGTCACCATT GTGCGCAACC CTTGCTTCAG TATTTGGAAG 6300 TCCCAGCAAC AGCTCGTGCA AGTTTTTATA TCTACAATAC CAAGGCAGAT TGCGACAAAC 6360 TAGTCGATGC CCTACAAAAG ACAAAGGAGT TTTTCAATGG CACTTTCTAA ACTAGATAGC 6420 CTTTATATGG CAGTGGTAGC AGACCATTCG AAAAATCCAC ATCACCAAGG GAAGTTAGAA 6480 GATGCTGAGC AAATCAGTCT CAACAATCCG ACTTGTGGGG ATGTCATCAA CCTCTCTGTC 6540

AAGTTTGATG	CAGAGGACCG	TTTGGAAGAT	ATTGCTTTTC	TAAATTCAGG	ATGCACGATT	6600
TCAACTGCTT	CTGCTAGTAT	GATGACAGAT	GCCGTTTTAG	GAAAAACCAA	ACAAGAAATT	6660
TTAGAACTGG	CGACTATTTT	TTCTGAAATG	GTTCAAGGGC	AAAAAGATGA	GCGTCAAGAC	6720
CAACTTGGAG	ACGCGGCATT	CTTGTCAGGT	GTTGCCAAAT	TCCCTCAAAG	AATCAAGTGT	6780
GCAACCCTAG	CTTGGAATGC	CCTTAAGAAA	ACAATTGAAA	ATCAAGAAAA	ACAGTAAGAC	6840
AAGTTTCTTT	TGTCTTATGA	ATTATTAGAA	ATGAAGAAAG	AAAGGATACT	ATGGCTGAAG	6900
AAAGAGTAGA	ACCAAAACCA	ATTGACCTTG	GTGAATATAA	ATTTGGTTTC	CATGACGATG	6960
TAGAGCCTGT	CTTATCGACA	GGAAAAGGAC	TCAACGAAGG	TGTTATTCGT	GAATTATCTG	7020
CTGCTAAGGG	TGAGCCTGAG	TGGATGTTGG	AGTTCCGTTT	GAAGTCTTAT	GAAACCTTCA	7080
AAAAAATGCC	CATGCAAACT	TGGGGAGCAG	ACTTGTCAGA	GATTGACTTT	GATGACTTAA	7140
TCTACTACCA	AAAACCATCT	GACAAACCAG	CCCGTTCTTG	GGATGATGTA	CCTGAAAAGA	7200
TTAAAGAAAC	CTTTGAACGT	ATCGGGATTC	CAGAAGCTGA	ACGTGCTTAT	TTAGCAGGGG	7260
CTTCTGCCCA	GTACGAGTCA	GAAGTGGTTT	ACCACAACAT	GAAGGAAGAG	TTCCAAAAAT	7320
TAGGTATTAT	CTTTACAGAT	ACAGATTCCG	CACTCAAGGA	ATACCCAGAC	TTATTTAAAC	7380
AATACTTTGC	GAAGTTGGTA	CCGCCGACAG	ATAACAAGTT	GGCAGCCCTC	AACTCAGCAG	7440
TATGGTCGGG	TGGAACTTTT	ATCTACGTGC	CAAAAGGTGT	CAAGGTAGAT	ATTCCACTTC	7500
AAACTTATTT	CCGTATCAAT	AACGAAAATA	TAGGTCAGTT	CGAACGTACC	TTGATTATCG	7560
PTGATGAGGG	AGCAAGCGTC	TACTACGTAG	AAGGATGTAC	AGCACCAACA	TATTCAAGCA	7620
ATAGCTTACA	CGCTGCCATT	GTAGAAATTT	TTGCTTTGGA	CGGAGCTTAT	ATGCGTTATA	7680
CAACTATCCA	AAACTGGTCT	GATAACGTCT	ATAACTTGGT	AACAAAGCGT	GCTAAGGCTC	7740
AAAAGGATGC	CACTGTTGAG	TGGATTGATG	GAAACTTGGG	TGCCAAAACG	ACTATGAAAT	7800
ATCCATCTGT	TTACCTTGAT	GGAGAAGGAG	CGCGTGGTAC	CATGCTCTCT	ATCGCCTTTG	7860
CTAATGCAGG	GCAACACCAA	GACACGGGTG	CTAAGATGAT	TCACAATGCT	CCACATACCA	7920
GCTCGTCTAT	TGTGTCTAAA	TCCATCGCTA	AAGGTGGAGG	AAAGGTTGAC	TACCGTGGAC	7980
AAGTCACCTT	TAACAAGAAC	TCTAAGAAAT	CTGTTTCCCA	CATTGAATGT	GATACCATTA	8040
PCATGGATGA	CTTGTCAGCA	TCAGATACTA	TTCCATTTAA	TGAAATTCAC	AACTCGCAAG	8100
rggctttgga	ACACGAAGCC	AAAGTATCTA	AGATTTCAGA	AGAGCAATTG	TATTATCTCA	8160
FGAGCCGTGG	ATTGTCAGAA	TCTGAGGCAA	CTGAAATGAT	TGTCATGGGA	TTTGTAGAAC	8220
ግር ተተመጥ አር ል አ አ	AGAACTTCCA	<b>АТССА АТАСС</b>	САСТТСАССТ	GAACCGCTTC	አጥጥልርርጥልጥር	8280

			824			
AAATGGAGGG	ATCAGTTGGA	TAAAATTTGA	TTTTATACTC	TTCGAAAATC	TCTTCAAACC	8340
ACGTCAGCAT	CGCCTTACCG	TATGTATGGT	TWCTGAtTCG	TCAGTTTCAT	CTACAACCTC	8400
AAAACAGTGT	TTTGAGCAAC	tGCGGCTAGC	TTCCTAGTTT	GTTCTTTGAT	TTTGAGTATT	8460
AGATTTACTC	AAAATCAAGG	ATTTTGAAGA	TGAACTTGTA	TCAAAAAATC	GCGGTTTAAA	8520
ATCGCGATTT	TTTATAATTT	CTCGTTAACA	AAGCGGACAA	ACTGATTCCA	CCAAACTTTT	8580
AAGAAGAAGG	CTTTTTCAAT	TTTCTTGTCT	GCTACCATTT	CGAAACTAGG	GCGCTCTGTG	8640
GTGATGTAAC	CTTGACCAAT	CAAGTCCTTG	TCTTCATAAG	TCAAATGGCC	AACCACTGTT	8700
CCAGCTTCAA	GTGGTGCTGG	GATTGCTTTG	GAATCAGGTG	TGAATTGAAC	AGATTGGGAA	8760
GATTGATTCC	CAACACGTTC	GATTAGATAG	ATATCCTCTG	GAGCCACTGC	AGTTACTGTA	8820
TCTTCTTTTC	CATCTTGTAC	AGGGGCTTTG	CTATCTTGAT	AGGCATCGCC	TTGTTGAACG	8880
ATTTTGCGAA	GTGTAAATGT	AGAAGAAATA	TAATCCATTA	GGGAAGATGT	AGCTGTAAAT	8940
CGAGCGTAAG	GATTATTGTC	TTGATGATCT	GCATTTAAAA	CAACTGTGAT	GACTCTCATG	9000
CCTTTTTCGA	CAGTAGTACC	AACAAAAGAC	TCTCCAGCCT	TATCTGTTGT	TCCTGTTTTT	9060
AGCCCATCAA	AACCACCACG	GTAAGCAGGC	ATACCTTCTA	ACATGTAGTT	GGTTGAAGTG	9120
ATTGTCATCC	CAGCAAAAGT	AGAAGAAGGT	TTTTTGGTGA	TTTCTAAGAC	TTGTGGGTAT	9180
TTTTTGATGA	GGTTGCGAGC	AACGATAGCG	ACATCATAAG	CACTAAGCTT	ATTTTCCTCA	9240
TCTTTTTAG	AACCTGGGTA	AATGTTATCC	CCTAGAGTTT	CATTGTTAAG	ACCTGTCGTA	9300
TTGACAACAG	TGGCATCCTG	AATTCCCCAT	TCCAAGAGTT	TTGCCCGCAT	CATATCGACG	9360
AAATCTTTTT	CTGAGCCAGC	AATTTTCTCA	GCTAGGGCAA	TAGCGGCGCT	GTTGGCACTA	9420
GATACCAGAG	TTGCTTCAAG	CAACTCTTCG	ACAGTATAAT	TACGGGCCTC	CATAGGAATA	9480
TTACTGGCTT	CAGAATTTGT	CGTCAATTGA	TAAGGATAAT	CAGAAATATC	TACAGGAGTG	9540
GAGAGGGTAA	TACTTCCGTT	TTCCAAAGCT	TCATAGACCA	GATAAACAGT	AATCAATTTT	9600
GTTATGGAAG	CAATTTCGAC	AGGTTGCGTT	GCATCCTTCT	CATAGAGAAT	TTTACCAGTA	9660
PTTGCCTCAA	CAGCAATCGC	ATGTTTAGCG	GCAATGGTAA	AATCTTGAGC	AACAGCAGTA	9720
GAAGCACCCC	CTAAAAGAGA	GACAGTTAAC	AAAGTTAAAA	ATATTTTTTT	CATAGTAGTC	9780
PTATTCTATC	ATAAAGAAAA	AAAATATTCT	TGCTTTAATA	ATTCATCTGT	TAAGCTTTTT	9840
GAAAATATGG	TAAAATAAAG	TAAGGGAGGT	AACTCATGTT	TCGTAGAAAT	AAATTATTTT	9900
TTTGGACCAC	AGAAATTTTA	CTCTTAACCA	TCATCTTTTA	CCTATGGAGA	CAGATGGGGT	9960
CTTTGATTAA	CCCTTTTGTT	AGCGTGCTTA	ATACAATTAT	GATTCCATTT	TTATTAGGGG	10020
GCTTTTTTTA	TTATTTGACA	AACCCTATTG	TTACTTTCTT	AAATAAAGTC	TGTAAACTCA	10080

ATCGTTTGCT	TGGTATTTTA	ATTACCTTGT	GTACTTTGGT	CTGGGGAATG	GTCATAGGTG	10140
TTGTCTATCT	CTTACCTATT	TTGATTAATC	AGTTATCTAG	TTTGATTATA	TCTAGTCAAA	10200
CTATTTATAG	TCGAGTACAA	GACTTAATCA	TAGACTTATC	TAATTATCCT	GCGCTCCAGA	10260
ATTTGGATGT	AGAAGCTACA	ATTCAGCAGT	TAAACTTATC	CTATGTTGAT	ATTCTTCAAA	10320
АТАТССТААА	TAGCGTATCA	AATAGTGTGG	GGAGCGTCTT	GTCAGCTCTT	ATCAGTACTG	10380
TTTTGATTTT	GATTATGACT	CCAGTTTTTT	TGGTTTATTT	CTTATTAGAT	GGACATAAAT	10440
TCTTGCCCAT	GCTTGAAAGA	ACGATTCTAA	AGAGGGATCG	CTTGCATATT	GCAGGCTTAT	10500
TAAAGAATTT	AAATGCGACG	ATTGCTCGCT	ATATTAGTGG	AGTTTCGATT	GACGCAATCA	10560
TTATAGGTTG	TTTGGCTTAT	ATTGGCTATA	GTATTATTGG	ТТТААААТАТ	GCTTTAGTTT	10620
TTGCCATTTT	TTCTGGTGTA	GCCAATTTAA	TTCCTTATGT	GGGGCCAAGT	ATTGGTTTGA	10680
TTCCTATGAT	CATCGCAAAT	ATATTCACTG	ATCCCCATAG	ACTGCTGATT	GCAGTGATTT	10740
ATATGCTTGT	TGTTCAGCAG	GTAGATGGCA	ATATCTTATA	TCCTCGAATC	GTAGGAAGTG	10800
TTATGAAGGT	TCATCCAATC	ACGATTTTAG	TTTTACTTTT	GTTGTCAAGC	AATATCTATG	10860
GTGTAGTTGG	AATGATTGTC	GCAGTGCCAA	CCTATTCTAT	CTTGAAAGAA	ATTTCTAAGT	10920
TCTTATCCCA	TTTGTATGAA	AATCATAAAA	TAATGAAAGA	ACGAGAAAGA	GAATTAGCTA	10980
AGTAAAAGTC	AGGAGAACCC	TGATTTTTCT	TTACTGGAAG	TGGCCTTTAG	ATTAGAAGAC	11040
TGAAAATAAG	TTAAAGTCTT	AAACTAATTT	TCACAGCTAA	GAATAGTAGA	AGTTAATCTG	11100
ATAAAAATCG	AAAAAACCAG	TGGAATTCTG	TGTCAGGGTA	AGTTCCACTG	GTTTTCATAG	11160
TCTATTAAAG	TTCGAATGAA	ACCTATTTAT	AGTAGATTGA	AACTAGAATA	GTACACCTCT	11220
AATTCTAAAA	CATTGTTAGA	AATCGATTTG	ACTGTCCTGA	TCTATTCGTT	CTATTCTTAT	11280
TTCATTTTAC	TATATTTTGG	TGCAATAAGT	GAAAAGTAGT	CCGAATAATA	TAAGGATTGA	11340
TTTTATAGTT	TTTAAACTCA	AATGAATTGA	AATAAAGAGA	GTACGAAAAT	TCTCATCTGA	11400
AAGTATTTTA	GAATAATTCT	CTTCGTGAAT	TTCTTCAAAA	CAGATAGCTT	CATCTTAGGT	11460
ATGTGATTTC	TTTTTGCATT	TTTGAGTTAG	ATAAGGTATA	ATGATTTTAT	TGTCTTTTGG	11520
GGTCGTTACG	GATTCGACAG	GCATTATGAG	GCATATTTTG	CGACTCGTGT	GGCGACGTAA	11580
ACGCTCAGTT	AAATATAACT	GCAAAAAATA	ACACTTCTTA	CGCTCTAGCT	GCCTAAAAAC	11640
CAGCAGGCGT	GACCCGATTT	GGATTGCTCG	TGTTCAATGA	CAGGTCTTAT	TATTAGCGAG	11700
ATACGATTAA	GCCTTGTCTA	GCGGTTTGAT	AAGAGATTGA	TAGACTCGCA	GTTTCTAGAC	11760
TTGAGTTATG	TGTCGAGGGG	CTGTTAAAAT	AATACATAAC	CTATGGTTGT	AGACAAATAT	11820

826 GTTGGCAGGT GTTTGGACGT GGGTTCGACT CCCACCGGCT CCATTATTCC TTTGCATTCT 11880 TTTGCATTCC TTGGTAAAAC GTTGTTAAAT CAACGTTTTT TATTTTTATC TTTGGTATTC 11940 CTTTGCATTC TTTTGCTAAA AAGGGAGTCA CAAACAGACC CTATTTTAAA AAAGGATAGA 12000 AAAAAGGATA CAACATTTGT CGCATCCTAA AAATAATCTT TTTTCGACGG AAGACATGGG 12060 ATTCGAACCC ACGCACGCTA TTACACGCCT ACCGCGTTTC CAACACGGCC TCTTAAGCCT 12120 CTTGAGTAAT CTTCCAATAC TTACTCAAAT AGTCTACCAT AAAGGCTCTT ATCTTGCAAT 12180 AAAAATTCTA GAAATAAGAA AAATGATAGA TTTTGAAAGA AAATGATAAA AAATGCTTGA 12240 CTTCGAAAGA AAGTATGATA GAATGAATAG TGTAAACGAT AACAGGAGGT GATTCAGTGT 12300 TAAAAACAGA ACGTAAACAA CTAATTTTAG AGGAGTTAAA TCAACATCAT GTAGTTTCTC 12360 TAGAAAAATT AGTTAGTTTG CTAGAAACGT CAGAATCAAC GGTTCGAAGA GACTTGGATG 12420 AGTTGGAAGC GGAAAACAAG CTTCGTCGTG TGCATGGTGG AGCAGAACTC CCCTACTCCT 12480 TACAGGAAGA AGAAACCATT CAAGAAAAAT CTGTCAAAAA CCTTCAAGAA AAGAAATTGC 12540 TGGCTCAGAA AGCAGCCTCT CTCATTAAAG AAAAAGATGT CATCTTTATC GATGCTGGAA 12600 CAACAACTGC TTTTTTGATT CATGAATTGG TCAATAAGAA TGTTACAGTT GTGACCAACT 12660 CCATTCACCA TGCCGCTCAG TTGGTTGAAA AGCAGAWTCC AACTGTCATG GTTGGAGGAA 12720 ACGTCAAGAC GGCGACAGAT GCTAGTATCG GGGGCGTTGC TCTTAACCAG ATTAACCAAT 12780 TGCACTTTGA CCGTGCCTTT ATCGGAATAA ATGGTGTTGA CGATGGCTAT TATACGACTC 12840 CTGATATGGA GGAGGGAGCT GTGAAAAGAG CTATTTTGGA GAATGCCAAG CAGACCTACG 12900 TCTTGGTGGA TTCGTCAAAA ATTGGACAAA CTTGCTTTGC CAAGGTAGCC CCACTCAAAC 12960 GCGCTATCGT TATCACTAGT CAAGGGCATG AGCTCTTGCA GGTTATTAAG GAGAAACGG 13020 AGGTAATAGA AGTATGATTT ATACAGTCAC ACTCAATCCA TCCATTGACT ATATCGTTCG 13080 TTTGGACCAA GTCAAAGTTG GTAGTGTCAA TCGTATGGAC AGTGATGATA AGTTTGCTGG 13140 TGGGAAAGGA ATCAATGTCA GCCGTGTCTT GAAACGTTTG AATATACCAA ATACAGCGAC 13200 GGGATTTATC GGTGGCTTTA CTGGTAAATT TATCACAGAT ACTTTAGCAG AGGAAGAAAT 1.3260 CGAGACACGT TTTGTCCAGG TGGCAGAAGA TACTCGTATC AATGTTAAAA TCAAAGCAGA 13320 CCAAGAAACA GAAATCAACG GAACGGGTCC AACTGTTGAA TCGGTTCAGC TAGAAGAATT 13380 GAAAGCTATT TTATCTAGTC TGACAGCAGA AGATACAGTT GTCTTTGCAG GTTCAAGTGC 13440 TAAAAATCTA GGCAATGTTA TCTATAAGGA TTTGATTCC TTGACGCGCC AGACTGGTGC 13500 GCAAGTGGTC TGTGACTTTG AAGGACAGAC CTTAATTGAT AGTTTGGACT ACCAGCCTCT 13560 TCTTGTAAAA CCAAACAATC ATGAACTTGG AGCGATTTTT GGGGTTAAAC TCGAAAGTTT 13620

AGATGAAATT	GAGAAATACG	CTCGTGAGTT	ACTGGCTAAG	GGTGCTCAAA	ATGTTATTAT	13680
CTCTATGGCT	GGTGATGGTG	CCCTTCTTGT	CACATCTGAG	GGAGCTTACT	TCGCTAAACC	13740
AATCAAAGGA	ACAGTCAAAA	ATTCAGTTGG	AGCTGGTGAT	TCTATGGTTG	CTGGATTCAC	13800
AGGTGAATTT	GTCAAATCAA	AAGACGTAGT	AGAAGCCTTC	AAATGGGGAG	TGGCTTGCGG	13860
AACGGCAACT	ACCTTCTCAG	ATGACTTGGC	AACGGCGGAA	TTTATTAAAG	AAACATATGG	13920
AAAAGTTGAG	GTAGAAAAAC	GATGAAAATT	CAAGACCTAT	TGAGAAAAGA	TGTCATGTTG	13980
CTAGATTTGC	AGGCAACTGA	AAAAACAGCT	GTCATCGACG	AGATGATTAA	AAATTTGACA	14040
GACCACGGTT	ATGTAACAGA	TTTTGAAACA	TTTAAAGAAG	GAATTTTGGC	GCGTGAAGCT	14100
TTGACTTCTA	CTGGTTTGGG	TGATGGAATC	GCAATGCCTC	ACAGCAAAAA	CGCTGCTGTC	14160
AAAGAAGCGA	CAGTTCTATT	TGCTAAGTCA	AATAAGGGTG	TTGACTACGA	GAGCTTGGAT	14220
GGACAAGCAA	CTGACCTCTT	CTTCATGATT	GCAGCTCCAG	AAGGTGCCAA	TGATACTCAC	14280
TTGGCAGCCT	TGGCAGAATT	GTCTCAATAC	TTGATGAAAG	ACGGTTTTGC	AGACAAACTT	14340
CGTCAAGCAA	CATCTGCAGA	CCAAGTTATC	GAACTTTTTG	ACCAAGCTTC	AGAAAAAACT	14400
GAGGAACTTG	TTCAAGCACC	TGCTAATGAC	TCTGGTGACT	TTATCGTAGC	TGTTACAGCT	14460
TGTACAACAG	GTATTGCCCA	CACTTACATG	GCCCAAGAAG	CCCTTCAAAA	AGTAGCTGCT	14520
GAAATGGGGG	TTGGTATCAA	GGTCGAAACC	AACGGTGCTA	GCGGTGTTGG	AAATCAACTA	14580
ACTGCAGAAG	ATATCCGTAA	GGCTAAAGCT	ATTATCATTG	CAGCAGACAA	GGCCGTTGAA	14640
ATGGATCGAT	TTGATGGAAA	ACCATTGATC	AATCGTCCAG	TTGCTGACGG	TATCCGTAAG	14700
ACAGAAGAGC	TAATTAACTT	GGCTCTTTCA	GGAGATACTG	AAGTCTACCG	TGCCGCTAAT	14760
GGTGCCAAAG	CTGCAACAGC	CTCTAACGAA	AAACAAAGCC	TTGGTGGTGC	CTTGTACAAA	14820
CACTTGATGA	GTGGTGTATC	TCAAATGTTA	CCATTCGTTA	TCGGTGGTGG	TATCATGATT	14880
GCCCTTGCCT	TCTTGATTGA	CGGTGCTTTG	GGTGTTCCAA	ATGAAAACCT	TGGCAATCTT	14940
GGTTCTTACC	ATGAGTTAGC	TTCTATGTTC	ATGAAAATTG	GTGGAGCTGC	CTTTGGTTTG	15000
ATGCTTCCAG	TCTTTGCGGG	TTATGTTGCC	TACTCTATTG	CTGAAAAACC	GGGTTTGGTA	15060
GCAGGTTTCG	TGGCTGGTGC	TATTGCCAAA	GAAGGTTTTG	CCTTTGGTAA	AATTCCTTAT	15120
GCCGCAGGTG	GTGAAGCAAC	TTCAACTCTT	GCAGGTGTCT	CATCTGGTTT	CCTAGGTGCC	15180
CTTGTTGGTG	GATTTATCGC	AGGTGCCTTG	GTTCTTGCCA	TCAAGAAATA	CGTTAAAGTT	15240
CCTCGTTCAC	TCGAAGGTGC	TAAATCAATC	CTTCTATTGC	CACTTCTTGG	AACAATCTTG	15300
ACAGGATTTG	TTATGCTAGC	TGTGAATATC	CCAATGGCTG	CAATCAACAC	TGCTATGAAT	15360

828 GACTTCCTAG GCGGTCTTGG AGGAGGTTCA GCTGTCCTTC TTGGTATCGT CCTTGGTGGA 15420 ATGATGGCTG TTGACATGGG TGGACCAGTT AATAAAGCAG CTTATGTCTT TGGTACAGGT 15480 ACGCTTGCAG CAACTGTTTC TTCAGGTGGT TCTGTAGCCA TGGCAGCAGT TATGGCTGGA 15540 GGAATGGTGC CACCACTTGC AATCTTTGTC GCAACTCTTC TTTTCAAAGA TAAATTTACT 15600 AAGGAAGAAC GTAACTCTGG TTTGACAAAC ATCATCATGG GCTTGTCATT TATCACTGAG 15660 GGAGCGATTC CATTTGGTGC CGCTGACCCA GCTCGTGCGA TTCCAAGCTT CATCCTTGGT 15720 TCAGCAGTAG CAGGTGGACT CGTTGGTCTT ACTGGTATCA AACTCATGGC GCCACACGGA 15780 GGAATCTTCG TTATCGCCCT TACTTCAAAT GCTCTCCTTT ACCTCGTTTC TGTCTTGGTA 15840 GGAGCAATCG TAAGTGGTGT GGTTTATGGT TACCTACGCA AACCACAAGC ATAAAAAATA 15900 GAAAAATGAA AAGATTGGAC CGTTTGGTGC AGTCTTTTTC TCTTCCCGAA ATGCCTGTGA 15960 AATATGGTAT AATAGAAGAA TGGCAAACAA GAATACAAGT ACAACAAGAC GGAGACCGTC 16020 TAAAGCAGAA CTGGAAAGAA AAGAAGCGAT TCAACGAATG TTGATTTCGT TAGGAATTGC 16080 GATTTTATTG ATTTTCGCAG CCTTCAAATT AGGGGCTGCA GGTATAACCC TTTATAATTT 16140 AATTCGCTTG CTAGTGGGTA GCCTAGCTTA TCTGGCGATA TTCGGCCTAT TAATCTATCT 16200 CTTCTTTTC AAGTGGATAC GAAAACAGGA AGGACTCTTA TCTGGCTTTT TCACCATATT 16260 TGCTGGCTTA CTCTTGATTT TTGAGGCCTA CTTGGTTTGG AAATATGGTT TGGACAAGTC 16320 CGTTCTAAAA GGGACCATGG CTCAGGTTGT GACAGATCTG ACTGGTTTTC GAACGACTAG 16380 CTTTGCTGGA GGGGGCTTGA TCGGGGTCGC TCTTTATATT CCAACAGCCT TTCTCTTTTC 16440 AAATATCGGA ACTTACTTTA TTGGTTCTAT CTTGATTTTA GTGGGTTCTC TCCTAGTCAG 16500 CCCTTGGTCT GTTTACGATA TTGCTGAATT TTTCAGTAGA GGCTTTGCCA AATGGTGGGA 16560 AGGGCACGAG CGTCGAAAAG AGGAACGCTT TGTCAAACAA GAAGAAAAAG CTCGCCAAAA 16620 GGCTGAGAAA GAGGCTAGAT TAGAACAAGA AGAGACTGAA AAAGCCTTAC TCGATTTGCC 16680 TCCTGTTGAT ATGGAAACGG GTGAAATTCT GACAGAGGAA GCTGTTCAAA ATCTTCCACC 16740 TATTCCAGAA GAAAAGTGGG TGGAACCAGA AATCATCCTG CCTCAAGCTG AACTTAAATT 16800 CCCTGAACAG GAAGATGACT CAGATGACGA AGATGTTCAG GTCGATTTTT CAGCCAAAGA 16860 AGCCCTTGAA TACAAACTTC CAAGCTTACA ACTCTTTGCA CCAGATAAAC CAAAAGATCA 16920 GTCTAAAGAG AAGAAAATTG TCAGAGAAAA TATCAAAATC TTAGAAGCAA CCTTTGCTAG 16980 CTTTGGTATT AAGGTAACAG TTGAACGGGC CGAAATTGGG CCATCAGTGA CCAAGTATGA 17040 AGTCAAGCCG GCTGTTGGTG TAAGGGTCAA CCGCATTTCC AATCTATCAG ATGACCTCGC 17100 TCTAGCCTTG GCTGCCAAAG ATGTCCGGAT TGAAGCACCA ATCCCTGGGA AATCCCTAAT 17160

CGGAATTGAA GTGCCCAACT	CCGATATTGC	CACTGTATCT	TTCCGAGAAC	TATGGGAACA	17220
ATCGCAAACG AAAGCAGAAA	ATTTCTTGGA	AATTCCTTTA	GGGAAGGCTG	TTAATGGAAC	17280
CGCAAGAGCT TTTGACCTTT	CTAAAATGCC	CCACTTGCTA	GTTGCAGGTT	CAACGGGTTC	17340
AGGGAAGTCA GTAGCAGTTA	ACGGCATTAT	TGCTAGCATT	CTCATGAAGG	CGAGACCAGA	17400
TCAAGTTAAA TTTATGATGG	TCGATCCCAA	GATGGTTGAG	TTATCTGTTT	ACAATGATAT	17460
TCCCCACCTC TTGATTCCAG	TCGTGACCAA	TCCACGCAAA	GCCAGCAAGG	CTCTGCAAAA	17520
GGTTGTGGAT GAAATGGAAA	ACCGTTATGA	ACTCTTTGCC	AAGGTGGGAG	TTCGGAATAT	17580
TGCAGGTTTT AATGCCAAGG	TAGAAGAGTT	CAATTCCCAG	TCTGAGTACA	AGCAAATTCC	17640
GCTACCATTC ATTGTCGTGA	TTGTGGATGA	GTTGGCTGAC	CTCATGATGG	TGGCCAGCAA	17700
GGAAGTGGAA GATGCTATCA	TCCGTCTTGG	GCAGAAGGCG	CGTGCTGCAG	GTATCCACAT	17760
GATTCTTGCA ACTCAGCGTC	CATCTGTTGA	TGTCATCTCT	GGTTTGATTA	AGGCCAATGT	17820
TCCATCTCGT GTAGCATTTG	CGGTTTCATC	AGGAACAGAC	TCCCGTACGA	TTTTGGATGA	17880
AAATGGAGCA GAAAAACTTC	TTGGTCGAGG	AGACATGCTC	TTTAAACCGA	TTGATGAAAA	17940
TCATCCAGTT CGTCTCCAAG	GCTCCTTTAT	CTCGGATGAC	GATGTTGAGC	GCATTGTGAA	18000
CTTCATCAAG ACTCAGGCAG	ATGCAGACTA	CGATGAGAGT	TTTGATCCAG	GTGAGGTTTC	18060
TGAAAATGAA GGAGAATTTT	CGGATGGAGA	TGCTGGTGGT	GATCCGCTTT	TTGAAGAAGC	18120
TAAGTCTTTG GTTATCGAAA	CACAGAAAGC	CAGTGCGTCT	ATGATTCAGC	GTCGTTTATC	18180
AGTTGGATTT AACCGTGCGA	CCCGTCTCAT	GGAAGAACTG	GAGATAGCAG	GTGTCATCGG	18240
TCCAGCTGAA GGTACCAAAC	CTCGAAAAGT	GTTACAACAA	TAAAAAAATA	GCTTCTTTCC	18300
AAGTTTGGAG GGAAGCTATT	TTAGTGGCTA	TTGATTGCTT	TTATTTTCTG	AAGTTGGCGC	18360
ATTGGACTGT TTTTCGTTTT	CAGTAGCAGG	TTTACTTGAA	GCAGGAGTAG	AAGAGTCCTG	18420
AGTTGCTGTT TTCTGATCTT	CTTTTTTCTC	TTCCTTGACG	CTAGATTTTG	GTGTTTCCTC	18480
TTGCTGTGTT TTTTCTTGAC	TAGTGTTAGT	CTCTTTAGTT	GGACTGGTGT	TTTCCTTAGG	18540
GGATTCCTTT TGGATTTCTT	TGACAATGGT	TGTCGTCTGG	CTTGTCGTAG	GTTCTTTTTT	18600
AATATTTTTG TTATTATCCA	AGGCGTT				18627

# (2) INFORMATION FOR SEQ ID NO: 114:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 2560 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

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# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 114:

TAAAATACGT TACCTTGCTT	CTGCACGTTC	AGCAGGTAAG	TCATTGAAAT	TTAAAGATCA	60
AGATATTACA ATTGAAGAAA	CGACTGAAAC	AGCTTTTGAA	GGAGTTGATA	TTGCTCTCTT	120
TTCAGCAGGT AGTTCTACAT	CAGCTAAGTA	TGCACCATAC	GCAGTAAAAG	CTGGCGTGGT	180
AGTAGTAGAT AATACATCTT	ATTTCCGTCA	AAATCCAGAT	GTTCCTTTGG	TTGTTCCAGA	240
GGTCAATGCT CATGCACTTG	ATGCTCACAA	CGGAATCATT	GCCTGCCCTA	ATTGTTCAAC	300
AATTCAAATG ATGGTGGCTC	TTGAGCCGGT	TCGCCAAAAA	TGGGGCTTGG	ACCGTATCAT	360
TGTTTCAACT TATCAAGCCG	TTTCAGGTGC	TGGTATGGGA	GCAATTCTTG	AGACACAACG	420
TGAACTTCGT GAAGTCTTGA	ATGATGGTGT	GAAACCACGT	GATTTGCATG	CGGAAATCTT	480
GCCTTCAGGT GGTGACAAGA	AACATTATCC	TATCGCCTTT	AACGCTCTTC	CACAAATTGA	540
TGTTTTCACT GATAATGATT	ACACGTACGA	AGAGATGAAG	ATGACCAAGG	AAACTAAGAA	600
AATTATGGAA GATGATAGCA	TTGCAGTATC	TGCAACATGT	GTGCGTATTC	CAGTCTTGTC	660
AGCTCACTCT GAGTCTGTTT	ATATCGAAAC	AAAAGAAGTG	GCTCCAATCG	AAGAAGTAAA	720
AGCAGCTATC GCAGCCTTCC	CAGGTGCTGT	TCTTGAAGAT	GATGTAGCTC	ATCAAATCTA	780
TCCTCAAGCT ATCAATGCAG	TTGGTTCGCG	TGATACCTTT	GTTGGTCGTA	TCCGTAAAGA	840
CTTGGATGCA GAAAAAGGAA	TTCACATGTG	GGTTGTTTCA	GATAACCTTC	TCAAAGGTGC	900
TGCTTGGAAC TCAGTTCAGA	TTGCTGAAAC	TCTTCATGAA	CGTGGATTGG	TTCGTCCAAC	960
AGCCGAATTG AAATTTGAAT	TAAAATAGTC	ATATCGTTTA	GGAGTTCAGA	TGAACTCCTT	1020
CTTTGAAATA GAGAGGTGTT	TTCGTGTCTT	ATCAAGATTT	AAAAAAATGT	AAAATCATTA	1080
CAGCCTTTAT TACCCCCTTC	CATGAGGATG	GTTCCATTAA	CTTTGATGCT	ATTCCAGCCT	1140
TGATTGAGCA TTTATTGGCC	CATCATACGG	ATGGAATTCT	TCTCGCAGGA	ACGACTGCTG	1200
AGAGTCCAAC TTTGACCCAC	GATGAGGAGT	TGGAGTTGTT	TGCGGCTGTA	CAAAAGGTTG	1260
TCAATGGACG CGTTCCTTTG	ATTGCGGGTG	TAGGTACTAA	TGATACGCGT	GACTCTATTG	1320
AGTTTGTCAA AGAAGTAGCG	GAATTTGGTG	GTTTCGCAGC	TGGGCTTGCT	ATTGTTCCTT	1380
ACTACAACAA ACCTTCTCAA	GAAGGGATGT	ATCAGCACTT	TAAGACTATT	GCAGATGCTT	1440
CTGACCTACC AATTATTATC	TATAACATTC	CAGGGCGTGT	AGTTGTCGAA	TTGACTCCAG	1500
AAACCATGCT TCGCTTGGCT	GACCATCCAA	ATATTATCGG	TGTCAAAGAA	TGTACTAGCT	1560
TGGCTAATAT GGCTTACTTG	ATTGAGCACA	AGCCTGAAGA	GTTCTTGATT	TATACAGGTG	1620
AGGATGGAGA TGCTTTCCAT	GCCATGAACC	TTGGGGCGGA	TGGGGTTATT	TCTGTTGCCT	1680

831

CTCATACAAA	TGGGGATGAA	ATGCACGAGA	TGTTTACTGC	GATTGCAGAA	AGCGATATGA	1740
AGAAAGCCGC	AGCAATTCAG	CGTAAATTCA	TTCCTAAGGT	TAATGCTCTC	TTCTCTTATC	1800
CAAGTCCTGC	TCCAGTTAAG	GCAATTCTTA	ACTATATGGG	ATTTGAAGCT	GGACCCACTC	1860
GTCTACCTCT	TGTTCCAGCA	CCAGAAGAAG	ATGCCAAACG	CATTATCAAG	GTTGTCGTAG	1920
ATGGCGACTA	CGAAGCAACT	AAGGCAACTG	TAACAGGGGT	CTTAAGACCA	GATTACTAAT	1980
AAAGACAATA	AAATCCGGCT	CTTTGTCAAC	TGTAGTGGGT	TGAAGTCAGC	TAAGCTCGAG	2040
AAAGGACAAA	TTTTGTCCTT	TCTTTTTGA	TATTCAGAGC	GATAAAAATC	CGTTTTTTGA	2100
AGTTTTCAAA	GTTCCGAAAA	CCAAAGGCAT	TGCGCTTGAT	AAGTTTGATG	AGATTATTGG	2160
TCGCTTCCAA	TTTGGCGTTT	GAATAGGGTA	GTTGAAGGGT	GTTGACGATT	TTCTTTTTGT	2220
CCTTTAGAAA	GGTTTTAAAG	ACAGTCTGAA	AAATAGGATG	AACCTGCTTC	AGATTGTCCT	2280
CAATGAGTCC	GAAAAATTTC	TCCGGTTCCT	TATTCTGAAA	GTGAAACAGC	AAGAGTTGAT	2340
AGAGCTGATA	GTGATGTTTC	AAGTTTTGTG	AATAGCTCAA	AAGCTTGTTT	AAAATCTCTT	2400
TATTGGTTAA	GTGCATACGA	AAAGTAGGAC	GATAAAATCG	CTTATCACTC	AGTTTACGGC	2460
TATCCTGTTG	AATGAGTTTC	CAGTAGCGCT	TGATAGCCTT	GTATTCGGGA	TTTTCGATGA	2520
AACTGATTCA	TGATTTGGAC	ACGCACACGA	CTCATAGCAC			2560

## (2) INFORMATION FOR SEQ ID NO: 115:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 11303 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 115:

TATTGGATTT	CCCTTGCAAT	CAGTTTATGG	GACAAGCACC	CGGCAGCGCA	GAGGAAATCA	60
ACGCCTTCTG	TAGCCTACAT	TTTCAAACCA	CCTTCCCACG	TTTTGCCAAG	ATTAAGGTCA	120
ACGGTAAGGA	AGCAGACCCT	CTCTATGTCT	GGTTACAAGA	CCAGAAATCC	GGCCCACTAG	180
GAAAACGAGT	CGAATGGAAT	TTCGCTAAGT	TTCTCATCGG	TCGAGATGGG	CAAGTCTTTG	240
AACGCTTTTC	TTCAAAAACA	GACCCAAAAC	AAATTGAAGA	GGCGATACAA	ACTCTACTAT	300
AATTCACAAT	CTCACTATGA	TTAGGTTTCC	TTTAACCTGA	TGAATAGTGA	GATTTTTTGA	360
TGGGCTTTGA	CTTAAATAGA	AAAACACCCC	ATGATATGAA	ACATGAAGTG	TTGTAAAGTC	420
TATGTTGTAG	GTGCTTATTT	CACAATTTCA	ATGTGACCAG	TGATAACGAA	TACCATACAG	480

			832			
AATCTTCATA	TACACTAAAC	AAATGACTTT	CTAATTATTT	CAATTAGTTT	TGGCTAGTAA	540
ATATCATTTC	CAACAAACGC	CCTCTCAATT	CCTTATCCTG	ATGATGCAAG	ATATTCATTA	600
AGTCATGAGA	GTTTTTCGCA	TTGATGAATT	GATTTAACAA	TCTATCTTTT	AATTCATATG	660
GAAGAGAAGC	TGTCTTTAGT	AGTCTAAAAA	CTTCGTCATT	TAAAGATGTC	CTTTTATTAT	720
CTTTCCATTC	AAATTTAGCT	GTATCATTCT	TATTTGGCAA	TTCAATTATA	GACACATTCG	780
PTCCTTTAAA	ATGAATTCTA	TGTTTTCTAT	TGCTTGGAAC	GATACTAGAA	TCTCCTTGTA	840
ATGCTAACTC	TACCATTCCC	ATTTCCCAAT	CGATTGATAA	TCTTGTTTTA	TATCTTTGAC	900
CATTTTGATC	TTCAAGCATT	TCAAAAGAAT	GTTGTTTTCC	TGGGAATACA	TACCAATCTA	960
CAACTTCAGG	TAAATCAACA	CCCATACCTA	TCTCAGAACC	AACCAAGGGA	ATGATTGCAC	1020
CACTTTTTGC	AAACACAGGC	GTAGTCGAGA	TGTCCCTATA	AACACTTAAC	TTCACACCAC	1080
CTGTGTATTT	TTTCTCTGAA	AAGAAGTCAT	ACCATTCACC	TTCAGGGAAC	CATACATCTA	1140
CTTTTGCAGA	TTGGAATGTC	AAATCCATCT	TTTCTACAAT	GGGAGCCACC	ATCAGTTCTG	1200
FTCCAAAAAA	GTATTGGTTT	GGAACATTAT	AGCTCTCATC	ATTCTCTGGA	TAGAAATAAT	1260
AGATTGGACT	GATTAATGGG	GCACCTTCCT	CATGTGTCTG	TACATTCATG	GTATATAGAT	1320
AGGGAATCAT	CTGATGTCTC	AAACGAAGGT	ATTTCTTCAT	AATCTTAGAT	GTTGTTTCTG	1380
AAAAAAACCA	AGGTTCTTTA	CTATTAAAAG	GACTTCTAGA	ACTATGTAAT	CGAGTAATCG	1440
GACTAAAAAC	ACCAAACTGT	AGCCATCTAG	TTTGTAGCTC	TTCGTCATAA	TCCCCCAACA	1500
PATGTCCACC	GATATCATGA	CTCCACCAAC	TATAACCGAT	ATTAGATGCT	GTCGCTGTAA	1560
AATAGGGTTG	AAATCTTAAG	GAATTCCAAC	TAATAATAGT	ATCCCCTGAA	AAACCAACAG	1620
GTAGCGGTG	ACTACCAGGA	CCTGCATATC	TTGATAAAAT	CAAACCACCT	TCTGCATTTT	1680
PACAACTATC	CTGATAGTGA	TAATGGTTTA	AAAGCCAAAG	TGGATCTAGC	ATACCTTGTG	1740
PCCCTTGTTG	CCAGTCAATC	САССАААААТ	CTACTCCCTG	CTTTTCTAGT	TCATAATGAA	1800
CATCTTTAAA	GTAGGCTTCC	CTAAAAGAGG	GATTAAAAAA	ATCAAAAATA	GCAGGTTCTT	1860
CTAGTTCTAC	ATTTAACCCC	AACCGTTTTG	CGATTTGAGG	ATAAGCTTCT	TCATAAGCCC	1920
GTATCCCATC	AGCAGGATGG	ACATTTAAGG	AGAGTTTTAG	CTTTCTATCA	TGAAGTTGTT	1980
GCAATAACTG	TTCTGGATTT	GGTATTAAGT	TTCTATTCCA	ACTATATCCT	GTCCAGCCAC	2040
TTCCAAAGCG	AGCTGGAATG	TCAGTTATAT	GCCAATCCAT	ATCTAACACA	CCGATAGATA	2100
ATGGAATTTT	CTCTGTTTCA	AATCTGTCTA	TTAAATCCAA	GTATTCATCC	GACGTATAAG	2160
GCCAATATCT	ACTCCACCAA	TTGCCTAAAG	CATATCTTGG	CAACAAGGGT	GTTGAACCAG	2220
CAAATGGTA	AAAATCTCTG	ATTGCTCCTC	TATAATCATG	CCCATAGGCA	AAGAAATACA	2280

GGTCAATTTG	ATTTTCTCTC	TCAATATAAC	CAGATTGTTC	ATCCCAAATA	AATCCTTGAG	2340
AATCATCCAA	TAAGGCTATA	CCATTTCGGC	TAATAATTCC	ATCTTCTAAC	GAGATTGCTC	2400
CATCTGCCTT	ATCCAGAGTC	CGAGCTGTTC	CTTTTAACGT	TTCAATAGAT	TCACCAAAAT	2460
ACCAGCGACT	ACCATATACG	GCAAAATTTC	CTTTTAATTC	ТАТАААТААА	TTTTCGGCGT	2520
TAAATTCTCC	TTTATTAAAG	TGCAGATGAA	AATAGTCCGT	CATAATATCT	AGTACGTTTG	2580
ATGTCTCGAT	ATAATCTAAC	GAAATTTGGC	CAAAATCTCT	ATTATAGATA	AGTTGTGTCG	2640
TTCTATCCTC	AAAACTTCCA	GTTTGAGAGT	ATTCTAACCT	TACTAGCTTG	TCTGTTAATA	2700
CAGAGATTCG	ATAAAACTCT	CCCTTAAAAA	TTTTCAATTT	GTTTTCCTCC	TTTTATGGTA	2760
GCATAAAAAC	AGAACGCACC	ATTTTTGATG	CGTTTTTCAT	TATTCTGAAT	GCAATGTTCT	2820
ATCTGTTATA	TCTATGACAA	ATAATAGTCA	ATTGAAAAAA	TGCAGTGGAC	AAAATATCTT	2880
TTAACAAACC	AAGAGTTTAT	TAAAGAGTTA	TCACTTTTCA	ACTTTTCTAA	GCTTATGCAG	2940
TTGTGAAACA	AACTACTTTT	AAACTATTAA	CTAAGATAGG	ATTGATAAAT	AATTTCAAAC	3000
TCTTACTAGC	AATCATACGA	TATTCAAGCT	CACGTGCTTT	TTTCCTTCCT	GCTTATTTCT	3060
TAGAACTGAA	GAACCCGGAT	CGGTATATAA	ATTATCCGGA	TCAACATAGT	CATAAGATTC	3120
ATAACAGTTG	CGCTTCATTA	AGTCATCCCC	AGAGCAAGAG	CTTCATCTCG	TAATTTTTCA	3180
ACATCACTAA	CCGTAGGTCG	CCATCCTTCA	ATCATATTTG	TACTTAAAGC	ATACCAAACA	3240
CTCTTAAAAA	CGGATCGGTT	TTCAAAAGCT	ATTCCCATGA	TTGTCATCTT	TTCTTTATCT	3300
ATATCTAAGG	ACATATGCTA	CCTCCTTTAG	ATACATTATA	CCATGTTTCT	CTGTAGCTTT	3360
ТАААААТТТТ	ATTTTGTTTG	TCATATCTAA	GTTTTCAGCA	CGCTTATCCT	ATTTTATAAG	3420
CCTCAAACCC	АААТАТАААА	CGCATTCTTT	TTGCTTTTTT	ACTATTGTAT	CGTATTCTAC	3480
GATAACATAC	TTTACTTTAT	TGTTTTTTTA	AATAACAGCA	GTTCCCTGTT	TATCAACTAT	3540
TCGAACTACT	TTCTATTTTG	CTTCATACCC	TACATAGCGA	AAAAATATGA	AAAAGCAGAG	3600
AAGAATATCT	TAAAAAGACC	TCTTCACTGC	TAATATTAAC	ACTCATTATT	ТАААСТАТАТ	3660
GGATTCTATC	ATCGAGTATA	CTTTTTTACT	TATTAGATAC	CTTGCTCTTC	TTTCACCAAT	3720
TTTTGATCAT	ATACACGGAT	GAATGGAAGA	TAGACTAGGA	ATGCTGCAAA	TGCACATACT	3780
AGAGCAACTA	ATACAGCTCG	AAGATCTGCT	GTCCCTAAGA	AAGCTCCAAT	CCCTACTGGA	3840
GTTGGCCATG	GAACCTGTGC	GATAATTGGC	TTAATAAAGT	TTAGAGAATT	CGCTACGTAA	3900
TAAATAGTAG	CAGTAACCAT	TGGTGCTAAA	ATAAATGGTA	TAGCCAAGGC	TGGATTATAG	3960
ATAATAGGTA	ATCCAAAAAT	TAATGGTTCA	ттаататтаа	ATAAGGCTGG	AACTACAGAT	4020

834 GCTCGTCCTA TTGCTTTAAG CTGTTCAGAT TTAGAGGCAA AAGCAATATA TAAACATAGT 4080 CCTAAAGTTG CACCAGAACC ACCTGCAATT ACAAACATAT TAGAAAATTC ACCTGCAACA 4140 GCGAAGTGCC CGCCAGCAGC ATTTTCAGCC ATGTTAGCAA GAGCAATTGG ACTAACAAAT 4200 GCAAAAACAA TGTTCGCACC GTGGATACCT ACAATCCAAA GTAGTTGAGT CAATAGATAA 4260 ATAATCATTA AACCAATCCA CGAATTAGTC AGATTGGATA CAAAACCAAA TGGAATTGCA 4320 ATGACTTTAA AAATATCTGT TCCCATTGCT ACAAGAAGAC CGTTGATAAA GATAACAACA 4380 AATGCAACAA CAAATCCCGG AACCAAAGCG GTAAATCCAC GAGAAACTCC TTCTGGAACA 4440 GCTTCAGGCA TTTTAATAAC CCAATTATGT TTAACACACA TACGATAAAT AAGAACAGTC 4500 ACAATTGCCA TAATGATTGC GGTAAAAATC CCTGTTGTCC CAAAACGTGC GACTACATTT 4560 CCCATTGCCC ATCCATCTGC AATTACTGCA CCTTCTTTTA GACTTGTCAC AGTCTTCATC 4620 ATTCCACCAT CAAAAATGAT TTGCGGTACT GTCATGACAA AAGCCATCAA GGCAAGCAAG 4680 GCACCATTAA GAGGATTCAT ATTGAGTTCT TCTTCCTCTG CATAAATTTT TGTCAATTCA 4740 TATGCAAGTG ATAGAACGAA ATAAAGAGAT AGAGAACCCA TAGTCGCATA GTTTGCAACC 4800 ATGTAAAGTG ATGTGAATTT ATCAAATGAA GCAGAGAAAA TATCTGCCAC AATTGGCCAA 4860 AATGAGAAAG CTTGTGGCAA AATACTGAAT ACCAAAAACA TTGATCCTAC AATAGTAAAT 4920 GGTACAGCAG CCATACCTGC AGCCGTGATA GCACGTACTA CTTTAAACTG AGCAAGTTTG 4980 CCCATTGGTC CCATAACATG GTTTTCAAGA AAACCAAACA ACCCGTTTTG TTGATCCATA 5040 AATAGACCTC CTTAATAAAA CATAATAATT TTTACTTTCT AAAGACTAGT TTCAAATACA 5100 AATTATACTA GATCAGGATT ATAAACTAAG TGAGTTCTTT TCCAATTGGA CAAATTGTTG 5160 ATAAGCCTTA TCTGTTCGTT TATAAATTTT TTTAATTCTT CTAATGTCTA ACAAACTCAG 5220 AACTAAACCT AATAGAAGAA CTACAAAAAC AAATAAACGT GCTACTTGGT TATTTTCAAA 5280 AATCGGAAAA AGATTCTTAA ACCAACTTGT CCAAGTTAAA ACAAGTAATC CTATTGAAAT 5340 AAGCATTTGT ATTCTAACAA ACATTAGTGT TATTCCCAAC TTTTCTTTCC TATTTCCA'FA 5400 AAGTTTAAAT TGTTCAACAG TTGCTAAAAT AGAAAATACT ATGAGCATAA TGGGGAAAAT 5460 AATAATAGGC GAGGGACTAA TAAACTGACT CAAAAGCCAA TAAATATTCC CAAAAAAGAA 5520 GAGTGCTATT GAATAACGTA GAAGAAGATA TCGATTGAAA AAAGTATTAG TTAGAGCCAT 5580 CTCTCGACGT TGTTGTTCAA TCTTTTGTCG TTCTTTTTTA TCCATATCAT TTCCTCCTTA 5640 TATAACAACA CATATTTAGT TAACTTTCTT ATAAAGAGCT AACATTTCCT TTGCTACTTC 5700 TAATAATGTC ATAGTGGTCA TTAAATGATC TTGAGCATGT ACCATGATAA TTTCAATTTT 5760 AATTTCCACT CCACTTGCGT ATTCTTGCAA GAGTTTGGTT TGTGCATGAT GCGCTTCAAG 5820

AATTATCTCA	TTTGATTGAT	TTAATTTACT	TTCTGCATCA	TCAAAACTAC	CTTCTCTCAT	5880
TTTTGCAAAT	GCTTCATGTA	TTTCTGACCT	TGCATTTCCC	GAATGCAGGA	TAATTTCAAA	5940
TGCTGCAACC	TGCAGTTCCT	CTTGATTCAT	ATAAACCTCC	TATTTTATCT	TCTCAAATAT	6000
<b>GTTAATAAAA</b>	TCTTCAAAGT	TATTGCAAGA	TATTAGCTGA	TTTTGCAATT	CATCATTCTC	6060
TGTCAGAGAG	ACTATCTTTT	TAGTCACAGT	TGCCAAACCT	TCGTTCCCAT	ATATTGATGG	6120
AGATAGAAGA	AATACTAGCT	GGACATGTGA	ACTTTGATTA	TCCCAGAGTA	ACGAATCTTT	6180
ACAAATTGCA	ACCGAAACCT	TTCCCTCTGT	ACCAAAGGGC	TGAATAGGAT	GCGGAACTGC	6240
AATTTTTCA	GAAAAAACAA	CTGAACTTAA	TTCTTCGCGC	TGTTTAATTC	CATAAAGTAA	6300
AGATTGTTCA	AACTCATTTG	ATTCACCAAC	AGATAAACTC	TCAACCATCT	TTTCAAGTAA	6360
ATTTACCTTG	TCTGATTCAG	TACATATTAA	AAAGTTTTCT	TTACTAAAAT	ACTGTCTAAA	6420
GCCGTTGTTT	TCAAATTTGT	TAATCTTTGA	TGATTGTACA	TAACTAGAAA	CTTGCATCTA	6480
ATCCATAGCT	TTTCTAATCA	TTTCCATCTC	ATCACTCTTA	AGAAACACAC	TAACTTTAAA	6540
AACTGGGATT	TGAAAATATA	GATTTGATAA	ATCAATAGCT	GACACTATAA	AATCTATTCC	6600
TTTAAGTTTT	TCTTGATTCA	ATTCATAGTA	GCCTATTACA	TCAACAACTT	CTACTCGCTT	6660
CCCAAACTCC	GTTTCCAAAC	GATTTCTTAA	CATTTGGGCT	GCACCAAATC	CTGTTGCACA	6720
AATAGCAAGA	ATATTAAACT	TAGTACTCTC	TTTGCTACGT	TCCATAGCAG	CTAAAAAGTG	6780
AAGACTTACA	TATGCTACTT	CATCATCTGA	TATTGTCCAC	TCCAAGAACT	TGTCCATATT	6840
TGCAAGAATT	TCTCTAGTCA	TAAAGAATAT	ATCACTATAA	TTCTGTTTAA	TTTCATCTAC	6900
CAAAGGGTTA	TTTAAGGTAA	TCCGGCTTTC	TAAACGTACT	TGTAGTGTCA	TTAGATGAGT	6960
TATCAATCCT	TCAATTAGTT	GGAAATCTGA	AGAAAAGTTA	TACATATCAT	CTAATCCTAA	7020
ATTCTGAAAT	GTTTTAAATA	AAGATTTTTT	TAAAACTTCT	TCAGAAATAT	TCTTCTGATT	<b>7</b> 080
TTTTTGACAT	TGTTGACTCT	TAGCTAACAA	ATGCAAAGTA	ATGTAGTCTA	TTTCCTGAAC	7140
TGGAAATTCC	TGATTTGTTA	CTTCTCTTAC	TTTAGAAAGA	ATTCTTTGGG	CAACCTTTCT	7200
CTCTATTGCA	TCATCAGTCA	TCTGACAGTC	TATATTTTTT	ATTTCAAATC	CGGATTTTAA	7260
ACGAATCACA	GACAATGCTA	TGTGAACTAC	TAAATTCTGT	AGTACAAAAT	CAGATAGTTT	7320
TAGGTTGGCC	TCTTGGCATT	CATCCAAAAC	AATTCTAGCA	AATTCTTCTA	ATGGAACAGT	7380
TTGATCAAAA	AAGTTAAATT	TTACATAGCA	ATGTATTGTT	ТТААААААТТ	GATTCTCTAG	7440
GAAATAATTT	ATGATAAAAC	GTCGTTTATC	ACGTTCCTCG	CCTGAGACAT	AAACTCCTTT	7500
ATTCGCCCTA	CTCTCAATGG	ACAAATTATA	CTCTGATAAC	ATCACTCGTA	TCTTTCTGAA	7560

836

ATCATGAGAT AATGTTGAAC GACTAACGTA AAGTTCATCA GCTAAATCAT CAAAAAGAAC 7620 TGGAACTTGC TCAAATAATA ATTTATTTAA GATAAATACT AAACGATCAT CACCTTTTGA 7680 AACCGCAGTT TTCGTATAGT CTTCTTCCAG TTCATAAGTT TGTCTAAACT CCTGGTAAGC 7740 GCCTTGATTC TCAAAAAATA TTTGATACCC TTGACCTTGT TTTGAAATCA ACCGGACTCC 7800 TTGAATAATC ATTGTCTTCT CAATTAATTT CAGTACATTA CGGACAGTTC TATCTGAACA 7860 GGATAAATAT TCTGCCAGTT CTTTGCTTGT AACAAAACGT TCCTTATTTT TTATTAAAAA 7920 TTGAAGGATA TCTTTCTCTT TAATGTTTAA CACATTCATT CCCTCCTAAA ACGTATGTTT 7980 TCATATTTG AAGCATATTA TACACTTAAA TCAGTTTATA TCAAACTCAA AACAATTTAT 8040 CTTAACCTAA ATATTATTG ACATTTCATG TGTTCATCAA ATATTCTCAA GAATCAAATT 8100 AGCCATTTTT TCAATTCCCA TTGGAATAGG AATATAGGCT TGAGGAGGTA TTTGTACAAC 8160 TGGTTTTCCT GCTTTAGAAC CAGCCTCTTC AAATTGCTTA AAGTACATTT TTGTTTGAGG 8220 ACTGACAAGA TACAAATCAA AAGCTGCTGC TGCGATAGCT TTCCCTCCTT CAGTAGCACT 8280 AATAGCATCA ACTACAATAT CTTTCCCTTT TCCTTTTAGA AACTCTGTTG TTTTCTGTGC 8340 CATAAGTGAT GAAGACATTC CTGCTGCACA AATAATTAAA GCTTTTGCCA TAATATTTTC 8400 TCCTTTTCTT AAATCCAATC AAAGCTGTGC TAAGTTGGCT TATTTGTTAT CTATTTTTAT 8460 TATAAAATAA AGCGTTTCCA ATGACAATTC CCTCATTTTC CTAAATGATA TGGAAAAAAA 8520 TTATTTATAC TTCAATTTAT AAAATAAAAT TATTCCTGAG AGTAGAAATG AAACACTATT 8580 TGCTAAAATC AAAGGCAAGT CTCCTATACG AATACCATGA GCAAGCCACA ATGCAATACC 8640 AATAACTTGC ATAACATACA TACCTAGAGC AATAGATCCT GTGTCCTTTG TCTTAACTAC 8700 ACGAAAACT TGTGGTAAAA ATGCAAATGT TGTTAAAATT GCTGCAATAC TTCCAATCAT 8760 ATGTCACCTC AATATGCTAA ACAAACTGAG AATAATCTCA GTTTGTTTAT ACTATTCTAC 8820 TGATTCACCG TTAGATGAAA TAACTTCCTT ATACCAGCCA AAAGATTTTT TCGGGGAACG 8880 ATTATAACTT CCCTTCCCAT TATCATCTTT ATCTACATAA ATAAAGCCAT AACGTTTCCG 8940 CATTTCACCG GTACCAGCTG AAACCAAATC AATACATCCC CATGGAGTAT AACCCATTAA 9000 ATCAACACCA TCTTCAACTA CAGCCTTTTT CATTTCACGA ATATGGGCAC CTAGATATTC 9060 AATTCTATAA TCATCATGTA CCATACCATC TGCTGCAACT TGATCTATAG CTCCAAAACC 9120 ATTTTCAACA ATAAAGAGTG GTAAGTGATA GTGGTCTGTA AACCAATTTA ACGCATAACG 9180 CAAACCTTCT GGATCAATTT GCCACTCCCA TTCAGAAGCC TTAACATAAT TATTTTTCAC 9240 TAAATCTTCT GTTTCAAGAT AATCAAAATA AGGATTATTT TCACGATGAG AGTCGATAGC 9300 AAAGGACATA TAGTAACTGA AACCAATGTA ATCTACAGTC CCACCAAGTA AATCTTCTTT 9360

ATCCTGGGCA	GTAAAATCAA	CTGAAATACC	TTTTCGTTCC	CAATACTTGA	AAATATGCTC	9420
AGGATATTTA	CCTAAAACAT	GCACATCAGC	ААААТААТАА	CGCTTCTGCA	TAGCTTTCAT	9480
TGCCATTAAG	ATATCCTTAG	GATTGCAAGT	AACTGGATAA	ATTGGACACA	TCGCAATCAT	9540
ACAACCTATT	TGAAAATCTG	GATTAATCTC	ATGACCAATT	TTTACAGCTC	GTGCAGAAGC	9600
AACTAATTCG	TAATGTGCTG	CTTGATACAT	AATTGCTTCT	CTATTATCAC	CTTCCTCATA	9660
TACAATACCT	GAGTTAGTAA	ATGGTGCAAA	ATCTTCCTGA	TAATTCGCTT	GATTATTGAT	9720
TTCATTGAAA	GTCATCCAAT	ATTTAACCTT	ATCTTTGTAA	CGTTTAAATA	CGACTTCTGC	9780
AAAACGAGCA	AAGAAATCAA	TCAATTTCCT	ATTTTTCCAA	CCACCATATT	CGGTCACTAA	9840
GTGATAAGGC	ATTTCAAAAT	GAGATAGAGT	GATGACAGGT	TCAATACCAT	TCTTTAAGCA	9900
ТТСАТСАААА	AGATTATCAT	AAAACTGTAA	TCCTTCTTCA	TTCGGCTCTA	ACTCATCACC	9960
TTTTGGAAAG	ATACGTGTCC	ATGCAATAGA	GGTACGGAAG	CACTTGAATC	CCATTTCAGC	10020
AAAAAGTGCT	ATATCTTCTT	TATAACGGTG	ATAAAAATCT	ATCGCCTCAT	GATTTGGATA	10080
ATATTTACCC	TCTAAAACTC	CCAAAGTAAT	TTCACGAGCT	ACTCCATGAC	GACCAGCAGT	10140
CATAACATCA	GCAACACTAA	TTCCCTTGCC	ACCTTCTTGC	CATCCACCTT	CAAGTTGATG	10200
AGCAGCAACA	GCACCACCCC	ATAAAAATCC	ATCTTTAAAA	GTAGTCATCT	TTTTTCCTCC	10260
TGACTTTGAT	ACTCTTATTA	TAAACCTTAA	ACCAAAAGAT	GAAAACGCAT	TCTTTTTCCT	10320
TATTGTTAAG	GAAAGAAGTA	ATTTTTAATG	GAAATAGAAC	AATATCTTCT	TGTATTCTCG	10380
TAATGATATC	TTTACGATTT	TCAATACTTT	CAAACTACAA	AAACTCTCAC	AATAATTCTA	10440
ATTCCCTGTG	TCTATAAACG	ACTTATCGCT	TTCTGGCATC	CCAGAATCAT	CTTCTATATA	10500
ACGTTCAACT	TGCATCTGCA	AGTGATATTT	TTTTCTTAAA	TCTAAGATTT	TCTGCATTGT	10560
CTTTGATTGA	TAATGTTTAT	CTAAAGTTTC	TTGATTTATC	CACTGATCAA	TAAGGAGAAT	10620
AGTTCCCTCT	TTTTCAATTG	GTAAAAAATA	TTCGTATTTC	AAGTTACCTT	TTTGATTTCT	10680
AATTTCTTTA	ACAAGGCCAC	TATCAAGCAT	TTCTCTTGCA	AACTTTATTG	CACTATCTCC	10740
ATCACCTTTA	TAATATACAT	GAATAGTCAA	TGTCATCTTA	TATCCTCCAA	AATCATCCTT	10800
CAATTTTAAA	AAAACAAGTT	TAGATGAGGA	TCTAAACTTG	TTTTTTATGA	ACTAATTATC	10860
TAACGTTTCG	CCATTACTTT	CAATCACTTC	TTTATACCAA	TAAAATGATT	TTTTCTTATA	10920
GCGATTTATA	GTCAATTGAA	ACAAGAGCAG	GACAAAAGAG	CCTCATAAAA	GGTATTGCAA	10980
CTTGGTAATA	CCTTTTTGAG	GTGCTTTTTG	ATATGAGCCC	ATGTTTTCTC	AATAGGATTG	11040
TACTCAGGTG	AGTAGGGAGG	AAGAGGTAAA	AGTTTATACC	CAAACTCTTC	ACACAAGAGT	11100

TCTAGCTTCC CCATTCTATG	GAATCTTGCA	838 TTATCCATAA	TAATAACCGA	TGGTGTGGTT	11160
AATGTTGGTA AGAGAAACTT	CTGAAACCAA	GCTTCAAAAA	AGTCGCTCGT	CATCGTCTCT	11220
TCGTAAGTCA TTGGAGCGAT	TAACTCACCA	TTTGTTAGAC	CTGCAACCAA	AGAAATCCTC	11280
TGATATCTTC TTCCAGATAC	TTT				11303

## (2) INFORMATION FOR SEQ ID NO: 116:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 3112 base pairs
  (B) TYPE: nucleic acid
  (C) STRANDEDNESS: double
  (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 116:

CCTTAGATTT	CCACTTGCCA	GAGGAATTGA	TTGCCCAAAC	GCCCCTTGAA	AAACGTGATG	60
CCTCCAAACT	CCTCATCGTC	AACCGTGAGA	CAGGAGAAAT	GCAAGATAAA	CATTTCCACT	120
CTATTATTGA	TATGCTGGAA	CCTGGTGATG	CCCTTGTCAT	GAACGACACC	CGAGTTCTCC	180
CTGCCCGCCT	CTATGGTCAA	AAAGTGGAGA	CAGGAGGTCA	TGTGGAACTT	CTCCTCCTTA	240
AGAACACTAG	TGGAGACGAG	TGGGAAGTTC	TGGCTAAACC	TGCCAAACGC	CTCAAGGTCG	300
GTACTCGTAT	CAGCTTTGGT	GATGGCCGCC	TCAGCGCTGT	CGTTACAGAA	GAATTGACCC	360
ACGGGGGACG	CATTGTCCGC	TTTGAATACC	AAGGAATTTT	CCTAGAAGTC	TTGGAAAGTC	420
TGGGAGAAAT	GCCTCTGCCA	CCTTATATCC	ACGAAAAATT	AGATGACCGT	GAACGTTATC	480
AAACCGTCTA	CGCCAAGGAA	AGTGGCTCTG	CTGCAGCACC	GACTGCTGGT	CTTCACTTCA	540
CCAAAGAACT	GCTGGCAGAA	ATCCAAGCTA	AGGGTGTTCA	TCTAGTCTAT	CTGACTCTCC	600
ATGTCGGACT	CGGAACCTTT	AGACCTGTTT	CTGTGGATAA	TCTGGACGAA	CACGAAATGC	660
ACTCAGAGTT	CTATCAACTT	TCTGAGGAAG	CTGCTGCCAC	CCTTCGCTCT	GTCAAAAAA	720
ATGGTGGTCG	TGTCATCGCT	GTCGGAACCA	CTTCTATCCG	CACCTTGGAA	ACTATTGGTT	780
CCAAGTTTGA	TGGGCAAATC	CAAGCAGATT	CTGGTTGGAC	CAATATCTTT	ATCAAACCTG	840
GGTATGAGTG	GAAGGTCGTG	GATGCCTTCT	CAACCAACTT	CCACCTGCCA	AAATCAACTC	900
TGGTCATGTT	GGTTTCTGCC	TTTGCAGGCC	GTGAATTAGT	CTTAGATGCC	TACCACCATT	960
CCATCCAAGA	ACACTACCGC	TTCTTCAGTT	TTGGTGACGC	CATGTTTATT	TATTGAGAAA	1020
GAATTTCTCT	AAATCTTCTA	ATACCAATAA	ATCGCTAAGA	TATTATTTCA	AAGAACATCT	1080
ACAATTGAAA	CTCTAGCTAG	CTGTAGAAGA	GGCCTAGTAC	ATTGAAATTA	AAATGCTTCC	1140
CCCTAGCTTC	GAAAATATTG	CCATAGATTG	CGTTGACTCT	CCAAATTGAT	TCATCTATAT	1200

TTTATTTCAG	CTTCCTATAC	TTTCTTCGCT	GTTTGTAAAT	CAAAATGCAA	GACACATGAG	1260
TAGCACCATA	TTTGTTACTC	TTATCTGTCC	TCTCAAGAGA	CTATTATGAG	TTATTTCAGA	1320
ATCATTCACT	ACTTTGACCC	TGACTCTCCT	TAGTCTCAAA	ATCAAAGACT	TATACTCTTC	1380
AAAAATCTCT	TCAAACCGCG	TCAACGTCAC	CTTGGATTAT	ATATGTGatC	TGaCTTCGTC	1440
AGTTCTATCT	ACAACCTCAA	AGCAGTACTT	TGAGCAACCT	GCGACTAGTT	TTCTAGTTTG	1500
CTCTTTGATT	TTCATTGAGT	ATTAAACAAA	AAGTGAACAA	ATCTGAATTC	TAATGTACAG	1560
AAGACTAGGC	TTGTTCACTT	TTTTATAGTC	GCTATAAGAT	GACCTTATCT	ATAGCTTTTT	1620
АТАТАТААТТ	ATATATTCAG	ACATACTATT	ATCAATTTTG	TCGCAGGGAG	GAATCTGTTA	1680
ACGCACCCAT	TCACCATTAT	CATTGACTCT	ATAGCCATCT	ATACTTGTAT	TGACCGCTAA	1740
CTCACCCGAT	GTATTTACAT	AATACCATTT	ACCACCAACT	TGGAACCATT	GATTGACTTT	1800
CATAGAACCG	TTGCTGTTGA	GGTAGTACCA	TGAACTATTA	ACTTGTACCC	AACCTGTTGC	1860
CATGGAACCA	TCAGTATTAT	AAAAATACCA	CATACCATTT	TCTTGTTTCC	AGTCTGTTGT	1920
IGGAGCAACT	GCTTTAGCTG	GTTCTACTGC	TACATCTGTT	CCTTGGTTAG	ATGTAACAGA	1980
FACAGGATAC	GAAGGAATAG	ATGATTGCTC	AGGAACAACA	ACTTTTTCAG	GTTCTCTCGT	2040
CCCTCTCCTT	ATACGTCTTT	TTACCATCTC	TTTAGTAATT	TGACGAGAAG	TAGTTTCTTC	2100
AATTGTTCCA	TCACGTTCAT	CTACAGTATA	GATTGTAGTA	AGAGTAATTT	ACCAATTTCT	2160
CCTACTTCTT	CTACTTCTTG	ACTTTTATCA	AGAGTTGGGC	CATCGAGATA	TTCTGTTTCG	2220
ATTGGAATTT	CTTGGACAAG	AACTTGGGGC	TTGGTTCTTT	TTTTAACAAC	TCTTGTTTGA	2280
GAGTCTTTTT	TTTGACTTAA	AGTACTCTCA	GTTACTTGTC	CACTCTTTCC	ATCTACATTA	2340
FAAGTTATCG	TTGTAACTGT	TTTCCCATTC	TTTCCTAGAG	TAATCTCTTG	CTCCTGTCCT	2400
GCAGAAAGGT	CATTGTCTGC	TTCATATTTA	GTAGCAAATG	GAACAAGAAC	TTCTTCAACC	2460
PTGCTTTTAG	CTGGAACTTT	GATAACTGTA	TCCGTGGCTT	CTTTTCTATC	AACAGTAACC	2520
rgttcggtaa	CATAACCAGT	CTCTGGATTA	ACATCGTAGG	TCCTTGTCGT	AGTTACATAG	2580
CCATCCTCTC	CATCAATTGT	AACAGGATTT	TCACTACGGT	CTTTTGTTTC	ATCTTTTTCA	2640
FAACGAATTC	GCGTACTTGA	AATTTTCTTG	GTTACTACCT	TAGGTTTAGT	CGCTACTTTT	2700
ACAATAATAT	CCCCATTGTC	AGCGTCATCA	TACTCTATTC	CCTCTTCTTT	ATCTCTAGTA	2760
PCATCTCTGA	CATATTGAAT	CCCATCAGCA	GCATGAACAA	AACTTGTATT	CAGATTCCTC	2820
СТАААААТАА	AGTTAGCCCG	ATTACCGCAG	ААССАААААТ	CTTTCCGAGT	TTACGTATTG	2880
CATAGCGCTT	ATTAGTATTA	GATTTTGCCA	TTACATCCTA	CTTCTAGTAT	AGCATCTTTT	2940

CTATCAAACG TTAAA	АСААТА ТАССТТАТАТ	840 ATAAAATAGA	CTTAGAATGA	TATATTGATT	3000		
ATTGAACTAA CACTT	TTAACT ATATCGTAAT	CAATCTCATA	TATAAAGGAT	TGCAGACATC	3060		
TTATCTAAAT ACATO	GCGAAT ATATTTAGAT	ACAAACATTC	CAACTTGATA	ΤA	3112		
(3) INFORMATION FOR GROUPS NO. 117.							

- (2) INFORMATION FOR SEQ ID NO: 117:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 4327 base pairs
      (B) TYPE: nucleic acid
      (C) STRANDEDNESS: double

    - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 117:

CCCAAAAATC TCTTCAAACC ACGTCA	GCTT CGCCTTGCCG TAGTATGGTT ACTGACTTCG 60
TCAGTTCTAT CCACAACCTC AAAACA	GTGT TTTGAGCATC ATGCGGCTAG CTTCTTAGTT 120
TGCTCTTTGA TTTTCATTGA GTATAA	AAAC AGATGAGTTT CTGTTTTCTT TTTATGGACT 180
ATAAATGTTC AGCTGAAACT ACTTTC	AAGG ACATTATTAT ATAAAAGAAT TTTTTGAAAC 240
TAAAATCTAC TATATTACAC TATATT	GAAA GCGTTTTAAA AATGAGGTAT AATAAATTTA 300
CTAACGCTTA TAAAAAGTGA TAGAAT	CTAT TTTTATGTAT ATTTAAAGAT AGATTGCTGT 360
AAAAATAGTA GTAGCTATGC GAAATA	ACAG ATAGAGAGA GGGATTGAAG CTTAGAAAAG 420
GGGAATAATA TGATATTTAA GGCATT	CAAG ACAAAAAAGC AGAGAAAAAG ACAAGTTGAA 480
CTACTTTTGA CAGTTTTTTT CGACAG	TTTT CTGATTGATT TATTTCTTCA CTTATTTGGG 540
ATTGTCCCCT TTAAGCTGGA TAAGAT	TCTG ATTGTGAGCT TGATTATATT TCCCATTATT 600
TCTACAAGTA TTTATGCTTA TGAAAA	GCTA TTTGAAAAAG TGTTCGATAA GGATTGAGCA 660
GGAAGTATGG TGTAAATAGC ATAGGC	TGAT GTCCATCATT TGCTTATAAA GAGATATTTT 720
AGTTTAATTG CAGCGGTGTC CTGGTA	GATA AACTAGATTG GCAGGAGTCT GATTGGAGAA 780
AGGAGAGGGG AAAATTGGCA CCAATT	TGAG ATAGTTTGTT TAGTTCATTT TTGTCATTTA 840
AATGAACTGT AGTAAAAGAA AGTTAA	TAAA AGACAAACTA AGTGCATTTT CTGGAGTAAA 900
TGTCTTATTT CAGAAATCGG GATATA	GATA TAGAGAGGAT CAGTATGAAT CGGAGTGTTC 960
AAGAACGTAA GTGTCGTTAT AGCATT	AGGA AACTATCGGT AGGAGCGGTT TCTATGATTG 1020
TAGGAGCAGT GGTATTTGGA ACGTCT	CCTG TTTTAGCTCA AGAAGGGGCA AGTGAGCAAC 1080
CTCTGGCAAA TGAAACTCAA CTTTCG	GGGG AGAGCTCAAC CCTAACTGAT ACAGAAAAGA 1140
GCCAGCCTTC TTCAGAGACT GAACTT	TCTG GCAATAAGCA AGAACAAGAA AGGAAAGATA 1200
AGCAAGAAGA AAAAATTCCA AGAGAT	TACT ATGCACGAGA TTTGGAAAAT GTCGAAACAG 1260

TGATAGAAAA	AGAAGATGTT	GAAACCAATG	CTTCAAATGG	TCAGAGAGTT	GATTTATCAA	1320
GTGAACTAGA	TAAACTAAAG	AAACTTGAAA	ACGCAACAGT	TCACATGGAG	TTTAAGCCAG	1380
ATGCCAAGGC	CCCAGCATTC	TATAATCTCT	TTTCTGTGTC	AAGTGCTACT	AAAAAAGATG	1440
AGTACTTCAC	TATGGCAGTT	TACAATAATA	CTGCTACTCT	AGAGGGGCGT	GGTTCGGATG	1500
GGAAACAGTT	TTACAATAAT	TACAACGATG	CACCCTTAAA	AGTTAAACCA	GGTCAGTGGA	1560
ATTCTGTGAC	TTTCACAGTT	GAAAAACCGA	CAGCAGAACT	ACCTAAAGGC	CGAGTGCGCC	1620
TCTACGTAAA	CGGGGTATTA	TCTCGAACAA	GTCTGAGATC	TGGCAATTTC	ATTAAAGATA	1680
TGCCAGATGT	AACGCATGTG	CAAATCGGAG	CAACCAAGCG	TGCCAACAAT	ACGGTTTGGG	1740
GGTCAAATCT	ACAGATTCGG	AATCTCACTG	TGTATAATCG	TGCTTTAACA	CCAGAAGAGG	1800
TACAAAAACG	TAGTCAACTT	TTTAAACGCT	CAGATTTAGA	АААААААСТА	CCTGAAGGAG	1860
CGGCTTTAAC	AGAGAAAACG	GACATATTCG	AAAGCGGGCG	TAACGGTAAC	CCAAATAAAG	1920
ATGGAATCAA	GAGTTATCGT	ATTCCAGCAC	TTCTCAAGAC	AGATAAAGGA	ACTTTGATCG	1980
CAGGTGCAGA	TGAACGCCGT	CTCCATTCGA	GTGACTGGGG	TGATATCGGT	ATGGTCATCA	2040
GACGTAGTGA	AGATAATGGT	AAAACTTGGG	GTGACCGAGT	AACCATTACC	AACTTACGTG	2100
ACAATCCAAA	AGCTTCTGAC	CCATCGATCG	GTTCACCAGT	GAATATCGAT	ATGGTGTTGG	2160
TTCAAGATCC	TGAAACCAAA	CGAATCTTTT	CTATCTATGA	CATGTTCCCA	GAAGGGAAGG	2220
GAATCTTTGG	AATGTCTTCA	CAAAAAGAAG	AAGCCTACAA	AAAAATCGAT	GGAAAAACCT	2280
ATCAAATCCT	CTACCGTGAA	GGAGAAAAGG	GAGCTTATAC	CATTCGAGAA	AATGGTACTG	2340
TCTATACACC	AGATGGTAAG	GCGACAGACT	ATCGCGTTGT	TGTAGATCCT	GTTAAACCAG	2400
CCTATAGCGA	CAAGGGTGAT	CTATACAAGG	GTGACCAATT	ACTAGGAAAT	ATCTACTTCA	2460
СААСАААСАА	AACTTCTCCA	TTTAGAATTG	CCAAGGATAG	CTATCTATGG	ATGTCCTACA	2520
GTGATGACGA	CGGGAAGACA	TGGTCAGCTC	CTCAAGATAT	TACTCCGATG	GTCAAAGCCG	2580
ATTGGATGAA	ATTCTTGGGT	GTAGGTCCTG	GAACAGGAAT	TGTACTTCGG	AATGGGCCTC	2640
ACAAGGGACG	GATTTTGATA	CCGGTTTATA	CGACTAATAA	TGTATCTCAC	TTAGATGGCT	2700
CGCAATCTTC	TCGTGTCATC	TATTCAGATG	ATCATGGAAA	AACTTGGCAT	GCTGGAGAAG	2760
CGGTCAACGA	TAACCGTCAG	GTAGACGGTC	AAAAGATCCA	CTCTTCTACG	ATGAACAATA	2820
GACGTGCGCA	AAATACAGAA	TCAACGGTGG	TACAACTAAA	CAATGGAGAT	GTTAAACTCT	2880
TTATGCGTGG	TTTGACTGGA	GATCTTCAGG	TTGCTACAAG	TAAAGACGGA	GGAGTGACTT	2940
GGGAGAAGGA	TATCAAACGT	TATCCACAGG	TTAAAGATGT	CTATGTTCAA	ATGTCTGCTA	3000

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			042			
TCCATACGAT	GCACGAAGGA	AAAGAATACA	TCATCCTCAG	TAATGCAGGT	GGACCGAAAC	3060
GTGAAAATGG	GATGGTCCAC	TTGGCACGTG	TCGAAGAAAA	TGGTGAGTTG	ACTTGGCTCA	3120
AACACAATCC	AATTCAAAAA	GGAGAGTTTG	CCTATAATTC	GCTCCAAGAA	TTAGGAAATG	3180
GGGAGTATGG	CATCTTGTAT	GAACATACTG	AAAAAGGACA	AAATGCCTAT	ACCCTATCAT	3240
TTAGAAAATT	TAATTGGGAA	TTTTTGAGCA	AAAATCTGAT	TTCTCCTACC	GAAGCGAACT	3300
AGAGAGATGG	GCAAAGGAGA	GATGGGCAAA	GGAGTTATTG	GCTTGGAGTT	CGACTCAGAA	3360
GTATTGGTCA	ACAAGGCTCC	AACCCTTCAA	TTGGCAAATG	GTAAAACAGC	GACTTTCCTA	3420
ACCCAGTATG	ATAGCAAGAC	CTTGTTGTTT	GCAGTAGATA	AGGAAGATAT	CGGACAGGAA	3480
ATTATTGGTA	TAGCTAAAGG	AAGCATCGAA	AGTATGCATA	ATCTTCCTGT	AAATCTAGCA	3540
GGTGCCAGAG	TTCCTGGCGG	AGTAAATGGT	AGCAAAGCAG	CGGTGCATGA	AGTTCCAGAA	3600
TTTACAGGGG	GAGTTAATGG	TACAGAGCCA	GCTGTTCATG	AAATCGCAGA	GTATAAGGGA	3660
TCTGATTCGC	TTGTAACTCT	TACTACAAAA	AAAGATTATA	CTTACAAAGC	TCCTCTTGCT	3720
CAGCAGGCAC	TTCCTGAAAC	AGGAAACAAG	GAGAGTGACC	TCCTAGCTTC	ACTAGGACTA	3780
ACAGCTTTCT	TCCTTGGTCT	GTTTACGCTA	GGGAAAAAGA	GAGAACAATA	AGAGAAGAAT	3840
ТСТАААСАТТ	TGATTTTGTA	AAAATGGCTC	TTTGTCAACT	GTAGTGGGTT	GAAGTCAGCT	3900
AAGCTCGAGA	AAGGACAAAT	TTTGTCCTTT	CTTTTTTGAT	ATTCAGAGCG	ATAAAAATCC	3960
GTTTTTTGAA	GTTTTCAAAG	TTCCGAAAAC	CAAAGGCATT	GCGCTTGATA	AGTTTGATGA	4020
GATTATTGGT	CGCTTCCAAT	TTGGCGTTAG	AATAGTGTAG	TTGAAGGCCG	TTGACGATTT	4080
TCTCTTTGTC	CTTTAGAAAG	GTTTTAAAGA	CAGTCTGAAA	AAGAGGATGA	ACCTGCTTTA	4140
GATTGTCCTC	AATGAGTCCG	AAAAATTTCT	CCGGTTCCTT	ATTCTGAAAG	TGAAACAGCA	4200
AGAGTTGATA	GAGCTGATAG	TGATGTTTCA	AGTCTTGTGA	ATAGCTCAAA	AGCTTGTTTA	4260
AAATCTCTTT	ATTGGTTAAA	TGCATACGAA	AAGTAGGGCG	ATAAAAATGT	TTATCGCTGA	4320
GTTTACG						4327

# (2) INFORMATION FOR SEQ ID NO: 118:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 3521 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 118:

CTCTGGCCCT GCCACTCCAA CGTTTTGTCA GGGTGCTTTT TTCATAAAGG AGTTCTTATG

TTAGATATCA	AACGTATTCG	TACAGATTTT	GAAGCTGTCG	CAGAAAAATT	AGCTACACGT	120
GGTGTAGATG	CTGCTGTCTT	GAATGAAATG	AAAGAAATCG	ATGCTAAACG	TCGTAACATC	180
TTGGTCAAGG	TTGAAACTCT	CAAAGCAGAA	CGTAACACAG	TTTCTGCTGA	GATTGCCCAA	240
GCTAAGCGCA	ACAAGGAAAA	TACAGATGAC	AAGATTGCTG	CCATGCAAAA	TCTATCTGCT	300
GAGGTTAAAG	CCTTGGATGC	TGAATTGGCA	GAAATCGATG	CTAAATTGAC	AGAATTTACA	360
ACGACTCTTC	CAAATATCCC	AGCTGACAGC	GTTCCTGTTG	GGGCTGACGA	AGACGACAAT	420
GTGGAAGTTC	GCCGTTGGGG	TACTCCACGC	GAGTTTGACT	TCGAACCTAA	AGCTCACTGG	480
GATCTCGGTG	AAGACCTTGG	TATCCTTGAC	TGGGAACGCG	GTGGTAAGGT	AACAGGCGCT	540
CGCTTCCTCT	TCTATAAAGG	CCTCGGTGCT	CGTTTGGAAC	GTGCTATCTA	CAACTTTATG	600
TTGGATGAAC	ATGGAAAAGA	AGGCTATACT	GAAGTCATCA	CACCTTACAT	AGTCAACCAT	660
GATTCTATGT	TTGGTACTGG	TCAGTATCCA	AAATTTAAGG	AAGATACTTT	TGAACTCAGC	720
GATACCAACT	TTGTCTTGAT	TCCAACTGCT	GAAGTTCCTC	TGACAAACTA	CTACCGTGAT	780
GAAATCTTAG	ACGGCAAAGA	TCTTCCAATC	TACTTCACTG	CCATGAGTCC	GTCATTCCGT	840
TCTGAGGCTG	GTTCTGCCGG	TCGTGATACG	CGTGGCTTGA	TCCGTTTGCA	CCAATTCCAC	900
AAGGTTGAAA	TGGTCAAATT	TGCCAAACCA	GAAGAATCTT	ACGAAGAATT	GGAAAAAATG	960
ACAGCCAACG	CTGAAAACAT	TCTTCAAAAA	CTCAACCTTC	CATACCGTGT	CGTTGCTCTC	1020
TCTACTGGAG	ATATGGGCTT	CTCAGCTGCG	AAGACTTACG	ACTTGGAAGT	GTGGATTCCA	1080
GCACAAAACA	ATTACCGTGA	AATCTCAAGC	TGTTCAAACA	CAGAAGATTT	CCAAGCCCGT	1140
CGTGCCCAAA	TCCGTTACCG	TGATGAAGCA	GATGGCAAGG	TGAAACTCCT	TCATACCTTG	1200
AACGGTTCTG	GACTTGCAGT	TGGACGTACA	GTGGCTGCAA	TTCTTGAAAA	ТТАССААААТ	1260
GAAGATGGTT	CTGTGACCAT	CCCAGAAGCA	CTTCGTCCAT	ACATGGGTGG	AGCTGAAGTC	1320
ATCAAACCAT	AAAAAATAAG	GTTTAGCTAT	TTCTAGCTAG	ACCTTTTTTC	GTAACCAAAT	1380
CAGATAAGCA	CCTAGTACAA	AGAATAAAAT	AGTTAGGCAT	ATAATGGTTT	CAGCCAATAC	1440
CAGGTAATCC	AGAAATGGAA	GTTTCAAAAT	TCCCTGAGCC	ATCTTGAGCG	AGGTCGCTGT	1500
GATAATGGTT	GGGAAGGTGA	GGGCTGAGAA	GGCTGGTTGA	AAACCTTGTT	TTAAAATGTT	1560
GGGCAGACGA	GTTAAAACAA	AGAAAAGAA	GGATTGAGAA	GCCAAAATCA	TGACAATCAA	1620
GACCCAAGTC	GGCAGGCTGG	TTCCTCCTAC	TCGAACTAGA	GAAGCCAAGA	GTAGAGAGAA	1680
AGGAGCACAG	TAGATTCCTT	CTTGTCCAAG	CAAGGCTAGT	GGGAGTGGAT	GTTTCTTTAA	1740
ATCGCTATAA	ATAAGGGGAT	AGAGATAGAA	GGTCAAGAGA	AAACCAAAAC	TCAAGGTCGC	1800

			844			
TAGGCAATT	TCGATAATAC	CTACCAGAGG	ATAGGTCAAG	GCAGCCACTG	CTATCCCCAC	1860
TAGAGAACC	GTCCAGCTTG	GAGTGGCATG	AACCCTCCGC	CCTGGACAAG	CAAACTTGAT	1920
GTAAAACCA	GCAATCAAGG	TCAAATCCAA	GAGAAATGAA	AACCACCAAA	TCCCTTGTGC	1980
PACCAAAGGA	AGATAAGAGA	ATACGCGAAA	GACATAGGTC	GATAAAATCA	TCCCAGCCAT	2040
AGGAAAGGTT	GCCATTCCTG	ACAAAAGAGG	GGGCTTGGTC	AATTCTTGCT	TGGTTTCTTT	2100
CCAATTAAAG	AGATGCAGAA	TTAGAAAGTA	AATCCATAAA	ACCAAACCAA	TCAGACTAAA	2160
AGATGGGAT	AGAACCGGCA	ACGTATCTAA	AATAAGATTT	CCAGCTCCTG	CCAAACCTAG	2220
CAAACAACCT	GAAAATACTA	AGGGGAGTTT	TTTCATCCTA	ACCTCCAATA	ATCATGTTAG	2280
TTCAGTATA	ACATAAAAGC	GCTTAAATGA	GGATTTAAAA	AAACGAGTCC	GCTTATTTCA	2340
SACTTCATTT	TACTCAGATA	TGAATTAGGC	ATAAGGTTGC	AATTCTGGAT	TAATTGGTGT	2400
TTAGCTAAG	TTGTTGGCAT	AGTTACAGAG	GATTGCTAGG	CTGACACCAA	AAACCACATC	2460
CAAGGCATTT	TGTTGAGTGT	AGCCAGCTTC	TAAAAACTCA	GACAAGGCTT	CATCTCCTAC	2520
CGACCCTTG	GTATTGATAA	CTGCCAAGGT	AAACTTAGCT	AGGGTATCCA	ATTTAGGATC	2580
GTTTCAATT	GGAGTACGAT	TGCGAAGAGC	TTGAATCAAG	TCATCATTCA	TCTGGATTTG	2640
TTGATGGAA	AAGGCTGTGT	GACCTGCGAC	ACAGAAGGCA	CAACCATTGG	TCACGGCTGC	2700
GTGATTTGC	ACCACTTCAC	GCTCAACGGG	TGTCAGGCTG	TTGCGACGGT	GGATAGATGA	2760
SACAATTTGG	TAGGCTTCTA	AAACAGTCGG	GGCATTGGCC	AAGAGACCGA	TTAGGTTGGG	2820
ATATAGCCA	TTGTTGTCTT	TTTCTACTGT	TTCAAGAATT	TCTTTCACTT	CTGCTGGTGC	2880
GACTCTACT	GTATGGATAG	TAAATGTTGT	CATAAGATAC	CTCTTTTCTT	ATTATTGACA	2940
TATTATAT	TGGAAAATCT	TATAAAATCC	TGATTCCTAA	GTTTATCTAA	GATAAAGCTT	3000
ATTCTCTCA	TAAGATTTTC	GTTGTTATAT	TAGTTTATCA	CACTTCCAAT	CACTTGTATA	3060
ATTATATATA	TATATCAGGC	TGATAAAAAT	TATTTATAGG	СААААААТС	ACACGAGCTG	3120
GTGATTCCA	TTATTTGTCA	AAATACTTTT	TAGTTTCAGC	AATAACGACT	GGCGACAAGA	3180
CAAGAGGGC	AATCAAGTTT	GGCAGAGCCA	TCAAGGCGTT	AACGATATCT	GCGATAATCC	3240
GACCATATC	CAACTCGATA	AATCCTCCTA	ACAAGACCAT	GAGCACAAAA	ACCACACGGT	3300
GAGCCAGAT	AAAGCGAACC	CCAAAGAGGA	ACTCAAAACA	GCGTTCTCCG	TAATAGTTCC	3360
ACCTAGAAT	CGTTGTAAAG	GCAAAAAGTA	CAAGGAAGAT	GGTCAAGAGA	GCAGGCCCAA	3420
GTGTGAAAA	GTTTGTTGAG	AAAGCTGACT	GAGTCAAGGC	AACCCCATTC	AAGTCACCGC	3480
CCAAACTCC	AGTTACCAAG	ATGGTCAAAC	CAGTTAGAGT	A		3521

(2) INFORMATION FOR SEQ ID NO: 119:

845

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1968 base pairs (B) TYPE: nucleic acid

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 119:

AACCTGGGCA AGCAAGCTAA AAGCAATG	GGG ACCTGGAATC	CTAATGGCAA	CTGCCGCTGT	60
TGGAGGTTCC CACATTGTAT CCTCAAC	TCA AGCTGGCGGT	TCTTACGGTT	GGTCTCTACT	120
TCTCTTGGTC ATCTTAGCCA ATGTCTT	TAA ATATCCATTT	TTCCGTTTTG	GTGCTGAATA	180
CACAGCTGAT ACTGGAAAGA CTTTGGT	TGA AGGTTATGCC	GAAAAAGGAA	AACTCTATCT	240
CTGGATTTTC TTTATCCTCA ATGTCTT	TTC GGCTATGGTC	AACACGGCTG	GTGTTGCCAT	300
TCTGTGCTCA GCTATCATCG CCAGTGC	CTT CCCAATGATT	GGACTTAGCA	TTACTCAGTG	360
GTCCCTCATT CTCGTTGCAA TCATTTGC	GGC TATGCTACTC	TTTGGAGGCT	ACAAACTTTT	420
AGACGGCATG GTCAAATGGA TTATGTC	FGC CTTAACCATT	GCGACTGTTC	TTGCAGTTAT	480
CATTGCGGCG GTCAAGCATC CAGAATA	CAG TTCTGATTTT	GTCGAGAAGA	CACCTTGGCA	540
AATGGCAGCT CTGCCCTTCA TCGTCTC	CCT CCTAGGATGG	ATGCCGGCTC	CTATTGAAAT	600
TTCAGCCATC AATTCACTTT GGTCAGCT	rga aaagagaaag	ACCGTCAACT	TTAACACAGA	660
AGACGCTCTG TTTGACTTTA ACACTGG	TTA TATTGGAACA	GCTATCCTAG	CCGTCTTCTT	720
TGTGGCACTG GGAGCACTGA TTCAGTA	rcc tacagggcag	GCGGTTGAAG	CTGCTTCAGC	780
CAAATACATC TCTCAATTCG TGGGCATC	GTA TGCCTCTGTT	CTTGGCGAAT	GGTCCCGTTA	840
CTTGATTACC TTTATTGCCT TCCTCTG	TAT CTTTGGAACA	GTTATAACTG	TTATCGATGG	900
CTATTCTCGC GTTAATCAGG AATCTCTC	CCG ACTGCTAATC	AGTCAAAAAG	AGGACAATCG	960
TAAATCTTTG AACATCTGGA TGACCATC	CAC TGCTATCATC	GGTATCGTCA	TTATCAAGTT	1020
CTTCGCTGGT CAGGTTTCAA CCATGCTC	CCG CTTTGCCATG	ATTGGCTCTT	TCCTGACAAC	1080
ACCTTTCTTT GCTCTTTTGA ATTACGCC	CTT GGTAACGCGT	GAAAACAAAA	ATCTTCCTTC	1140
TTGGCTCAAA CACCTTGCCA TTGCGGGA	ATT GATTTTCCTC	TTTGCTTCGC	CATCTTCTTT	1200
ATCTACGCAC TCGCAATCGG AAAAGCAG	GG TAAGGGACAA	GCGCGAGATG	AAGATAAGGT	1260
TTCATTTCAA GAGAAAATTC AGCAAATA	ATT TCTATGATAA	AAAGCATAAG	AACAAGGTTT	1320
TGAAGACCTG AACTTATGCT TTTTTACC	STT CTTAAAGACT	GTTTATACTC	AAAAAACAGT	1380
TGAACAACTT CAACCACCTC TTATAAGA	AC TTTATACTAT	TCGAGAATCT	CTTCAAACCA	1440

			846			
CGTCAGCTCT	ATCTGCAACC	TCAAAGCTGT		ACCTGCGACT	AGCTTCCTAG	1500
TTTGCTCTTT	GATTTTCATT	GAGTATTAAT	TCTCCTTTTC	CAACTCATAC	AAATCTGCGA	1560
TAATAGCTGC	GACATGTTTG	ATATCTTCCA	GCATGCCTCG	CATTTCAAAG	TCAGCCAATA	1620
CAGGGAAGCC	AAAGCGTTGA	CTGTATTGCT	TGGCTGTTAG	GCAGTATTGG	TTATTAAAGT	1680
TACGATTTCC	TGACCCAACC	ACACCAAAAC	ACTTACTAGC	ATTGTTACCA	TAGGCAATAA	1740
AATCTCCCAC	CGGTGTCGTC	AAAATCTCAA	CATCTCCGTT	ATCCACGCCA	TTCCCACCTT	1800
CGAGATAGGT	CGGCAAAAAA	GCGACATAGG	GATGGTCCAT	TTCATAGAAA	TTTTTGCCTT	1860
CCTTGACCAA	ATCCTTGATA	TGAATCTTTT	GAACCTCAAT	CCCTTTGTAC	TGGGACAAGA	1920
GATAGTCTTT	CAAGCGCGTC	ACAAAACTTT	CAGTGTTGCC	ACTCAAGG		1968
403						

## (2) INFORMATION FOR SEQ ID NO: 120:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 7172 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

- (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 120:

CCGCATTTTT TATCACTAGA	CTCGAGACAT	CTTTTGAGTG	GCTCTTGCTC	TCTGGTTTAA	60
TTTTCTTCCT TGCTCAAGGA	CTCCTGCTAT	TTCTCTTGGT	CGTCCGACTC	AAACATCAAT	120
TCGCTGAGAT TTATCCTCAA	АТСААТАААА	AGATTCGCTT	СТАСТАТТТА	GGGGTTCTCA	180
CCATTGATTT TCTATTTTTT	GTTCTCTTAG	CCTTCATTAG	TTCTCAGCGT	TTTTCATCTC	240
TTATGCCAAT CATCACTGCT	TGCCATTCTA	CTTTTTATTA	TATGACAGCT	GACTACCTAA	300
GAGAAAACTA TCCAGACTTT	TACGACAAAC	ACATCTCTTT	ATGGGAGTGT	CTCTAAAGAA	360
AAGGAGGTTT TAGCATGAAA	AAAATCATCT	TCATCAAAAC	CATTCAACTC	CTTGTCATTG	420
ATGGAATCAT GCTGGCATTT	TTGACATTTA	AAAGGGGGCT	TACTTGGGAC	TGGATTTTGA	480
TTTATAGCGG TTGGCTCATT	TTCTTTCATC	CTGTGCTATT	GACCTATCTT	TCAAACCAAC	540
TTTGTGACCA CTTTAGTTAA	CTCTATTCCC	AGATTAGACC	GAGATTCTGG	CGTTTTGCTT	600
TACAAATTCT CCTATGGGAT	AGCCTGATGA	TTCTCTCCTT	GGTGTCTTTA	AGTGATATTC	660
CACTTTCCT TCAGGGAACT	CTCCTCATCC	TAGGACATCT	CATCCCTTCC	TATCGCATCT	720
GCCAAAGCCT GAAAAGAGAC	TTCCCCCAAG	CATATCAAGA	ACCGATTTCT	TTTTGGAGTA	780
TTTTATGATA GATGAGAAAG	ACCAAGCCGA	CTGGGCTTGG	TCTTTCTTAT	CTCTTTTTAG	840
TATCTAGGAT AATGGTAACA	GGTCCATTAT	TAACCAGCTC	AACCTGCATA	TCTGCTCCAA	900

AGATGCCTGT	CTGAACGGGC	ACTTCTTGCG	CTAATTTTTG	ATTGAAAGCA	TCATAGAAGT	960
CTGATGCCAT	ATCAGGTTTA	GCTGCCCCTG	TAAAGgCTGG	ACGATTGCCT	CTCTTAGTAT	1020
CCGCAAAGAG	GGTAAACTGA	GAAATAGAGA	GGATTTCTCC	TTCAATATCT	TTGACAGACA	1080
GGTTCATCTT	GCCTTCTGCG	TCTGAAAAA	TCCGCATATT	GACCAGTTTT	CTCACAGCAT	1140
AGTCCAAATC	TTCCTCTTGG	TCCTCTGGTC	CAACACCAAC	CAGCAATAAA	AGTCCCTGAT	1200
TGATTTTTCC	CTGAATCTGG	CCTTCTATAC	TCACTTGGGC	TTTTTTAACC	CGTTGGATAA	1260
TGATTTTCAT	AATAGCCTTT	CTAGTAAGAG	CTAGGACAAC	TAGCCGTTGG	TCCGTTTGAC	1320
AGAGTAAACT	TCTGGCACAC	TCTTAATTTT	ATCGACAACC	GTGGTCAGTG	TAGAGAGGTT	1380
GGCAATACCG	AAGgACACAT	GGATATTAGC	AAACTTCATA	TCCTTGGTTG	GTTGGGCATT	1440
GACCGTTGAA	ATATTCTTGG	TTGTATTTGA	AAGAACTTGC	AGTACATCGT	TCAACAGTCC	1500
TGTACGGTTG	AGACCGTAGA	TATCGATATG	GGCCATATAC	TCCTTATTTG	AGCTAGGGTA	1560
CTGGTCTTCC	CATTCCACAT	CAAGGAGACG	TTGCTCGTAG	TTTTCTTGGG	CACGCAGGTT	1620
CATACAGTCC	ACACGGTGAA	TAGCCACACC	ACGACCCTTG	GTAATGTAGC	CAACAATATC	1680
GTCACCAGGC	ACGGGGTTAC	AACACTTAGC	AATCCGCACT	AGGAGACCAG	AAGCACCTTC	1740
AATAACCACT	CCCCCTCAT	GCTTGACCTT	GAGGGTTTCT	TTATTTTCAA	CCTTGACCTC	1800
GCCACCTTTG	ACAAGCTCCT	CTGCCTCAGC	TTTGGCCTTG	GCACGCTCTT	CCTCACGGCG	1860
TTCCTTTTCA	GTCAGACGGT	TAAAGACGGT	AATCGCACCG	ATTTCCCCAA	AACCAATGGC	1920
CGCAAAGAGG	GAGTCTTCTG	TCTTGTAACT	GGTCTTTTGC	AGAACTTGAT	CCATGTGGCG	1980
CTTGTCCATA	AATTTATTTG	CCACATAGCC	ATTTTCTTGG	AACTGAGCCA	TCAGCATCTC	2040
ACGACCCTTG	TTGACAGACA	ATTCCTTATC	TTGGTTTTTA	AAGAACTGGC	GAATCTTATT	2100
GCGCGCCTTG	CTAGTCTTGA	CCATATTGAG	CCAGTCACGG	CTAGGTCCAA	AGGAGTTCGG	2160
GTTGGCGATA	ATTTCAACCT	GATCCCCTGT	CTTTAACTTG	GTTGTCAGTG	GAACCATGCG	2220
GCCATTGACC	TTGGCACCAG	TTGCTTTTTC	ACCGACCTTG	GTATGGATTT	CGTAGGCAAA	2280
ATCAATCGGT	CCTGAATCTT	TGGGAAGGGA	ACGGACAGCT	CCATCTGGGG	TAAAAACGTA	2340
AATCTCCTCA	GCCAAATAGT	TTTCCTTAAC	AGAGTCCACA	AATTCCTTAG	CATCATCAGC	2400
CTGGTCTTGG	AGCTCCATCA	TCTCCTTGAT	CCAGTTCATT	CCAATAGCTG	ATTCCTTGCT	2460
GTTAACTTGC	CCCTTTATAC	СТТТСТТАТА	AGCCCAGTGA	GCCGCAACCC	CGTACTCAGC	2520
CACCTCGTGC	ATTTCCTTGG	TTCGAATCTG	GAATTCAATC	GGCCCTTTTG	GTCCATAAAC	2580
AGTCGTATGG	ATAGACTGAT	AACCATTGGC	CTTGCGGTTG	GCGATATAGT	CTTTGAAGCG	2640

848 ACCTGGCATC GGTTTCCAAA ATTCATGCAC GTAACCAAGC ATGGCATAAA CATCACTTTG 2700 GGTATCTAAA ATACAACGAA TAGCAATCAG ATCATAGATT TCCTCAAACC GTTTTCTCTT 2760 GTCCTGCATT TTGCGGAAAA TTGAGTAAAT ATGCTTGGGA CGACCATAAA TCTTCCCTTT 2820 CAAGTGACGT TCTGTCGTAT ACTCCTCTAA TTTTGTGACT ACCTCATCCA CCAAGGCCTC 2880 ACGCTCCCTG CGCTTTTCCT TCATCATATG GGTAATCTTG TAAAACTCCG TTGGATTGAG 2940 ATAACGGAAA GACAAGTCTT CTAATTCCCA TTTGACACTG GAAATCCCCA AACGATGGGC 3000 AAGCGGGGCA TAGATTTCCA TGGTTTCTTT GGAAATACGC TCCTGCTTGT CTTTTCGAAG 3060 ATGTTTCAGG GTCCGCATAT TGTGCAAGCG GTCAGACAGT TTGACCAAAA TAACGCGGAT 3120 GTCCTCAGAC ATGGCCATGA GCATCTTGCG ATGATTTTCC GCTAATTGCT CCTCGATCGA 3180 TTTGTACTCG ACCTTGCCAA GCTTGGTAAC TCCGTCAACA ATCATCCGCA CATCAGGACC 3240 AAACTCTCTT TCCAAATCGT CCAAAGTCGC ATCTGTATCT TCCACCACAT CATGCAAGAA 3300 3360 AGGGTGAATG ATATAAGGCT CGCCTGATTT GCGATATTGA CCACTGTGGC ATTCAACAGC 3420 ATAGACCAAG GCCTTATGGA CAAAATGAAC ATCCTCTTCC GTTAAATATT CTTTGGTTAA 3480 AGCGACAACT TCTTCGCCTG TTAAATTCAC TTCTTTCGGC ATCTCTACTC TCCAATTCTT 3540 CCTACCATTT TATCACTTTT TTAAGAATAT GAAAACTAGA TTGGAACAGA ATAAGAAAAA 3600 AATAATTCAA AATTGCTTGA TAATTCTGAA TTATTGGTCC GTAATATACT ACGAAGTTAG 3660 ATTTTAAACT TAGGTGATAG AAGGAGAGAT AGAAGAACGG AAACCATATT GTAACCCAAA 3720 GACTTTCTGA CTTCCCCAAT TCCATTGAAG ATACGAAAGA TAAACGGTGG AACTCGTATC 3780 ACATACACTG GTACCTTGAC TGGATTTTGG AATTAATACT AAATGAAAAT CAAAGAGCAA 3840 ACTAGGAAAC TAGCCGCAGG TTACTCAAAG CACCGCTTTG AGGTTGCAGA TAAAGTTGAC 3900 GCGGTTTGAA GAGATTTTTG AAGAGTATAA AAATCCTCAA GATACTTTCT TCTATCCTTT 3960 AGTTTATAAG GAGAATACCT ATGAAAAAAA CTGCTATTTC TATCTTTGCT CTCCTAATGT 4020 TAGGAGTTTG CTGCCTGTTC CTATTCAGCC AGCAAAGCTA TAAAAAACAG TCGTTCAATA 4080 CTATGCTAAC GACCAGAACC TGCCCAGTAG GATAACTTAT AGTGAATATA GCGACAAATG 4140 AGAAGCCAAC TACGGTAGCA CTCTAAACAT CACGTCTATC AAACAAGCTA ATGACGGAGT 4200 TTATGCAACC TATGAAGGGC AATTGACACC TTTCCAATAT TGATAAATTG ATAACCAGCC 4260 TGTCTTCATC TAGTCATGCT GGTTTTTAAG TTCATTTTAA ATCCTTACCT ATTCTCCCTA 4320 ACTGTGCTAT ACTTAATTTA TACTCAATGA AAATCAAAGA GCAAACTAGA AAGCTAGCCG 4380 CAGGCTGTTC AAAGCACTGC TTTGAGGTTG CAGATAAAGT TGACGCGGTT TGAAGAGATT 4440

TTCGAAGAGT	ATTAGTACAT	TCTTTGAGAT	TGGAGCTAGT	ATGAAAATCC	ATAAAACCGT	4500
GAATCCTGTT	GCCTATGAAA	ATACCTATTA	TCTAGAAGGC	GAAAAGCACC	TCATCGTCGT	4560
CGATCCTGGT	AGTCATTGGG	AAGCCATTCG	TCAGACAATC	GAGAAGATCA	ACAAACCGAT	4620
CTGTGCTATT	CTCTTGACCC	ACGCCCATTA	TGACCATATC	ATGAGTCTGG	ACTTGGTTCG	4680
CGAGACGTTT	GGCAATCCTC	CTGTCTATAT	CGCAGAGAGC	GAAGCCAGCT	GGCTCTACAC	4740
TCCTGTCGAT	AATCTCTCCG	GTCTCCCTCG	CCACGATGAT	ATGGCAGATG	TGGTCACAAA	4800
ACCTGCAGAA	CACACCTTTG	TCTTTCACGA	AGAATACCAA	CTAGAGGAAT	TTCGTTTTAA	4860
GGTTCTACCG	ACCCCAGGGC	ACTCTATCGG	TGGTGTTTCC	CTAGTCTTTC	CTGATGCTCA	4920
TCTAGTCTTG	ACGGGAGATG	CTCTATTCCG	CGAAACTATC	GGACGGACCG	ACCTTCCGAC	4980
TGGTAGCATG	GAGCAACTCC	TTCATAGTAT	CCAGACCCAA	CTCTTCACCC	TACCAAACTA	5040
CGATGTCTAT	CCAGGACATG	GTCCAGCTAC	TACTATCGCT	CACGAAAAGG	CCTTCAATCC	5100
CTTTTTCTAG	CAAGATGATG	ACAATCGAAA	TTTAAGTAAA	CTATCCAGCA	AATCTTTCTA	5160
TTACAAAAGG	CATCCTATCA	AGGTTTTCAC	ACATGATTGG	ATGCCTTTTT	TCTGATGACT	5220
AGATTTTTTG	CATTACCAAA	TAATCACGCG	CTCCTCTGGT	GAACGCCACA	TTCCGTCTCC	5280
TTCTTTGACA	TCATAGGTTG	TAAAGAAATC	GTCGAAGTTT	GGTACTTGCA	CATTGACACG	5340
GAGTTTGGCT	GGTGCGTGCA	CATCGACGCT	AGCCAAAAGT	ТТСАТАААТТ	CTGGTCGACC	5400
TTTCATGCGC	CAGATGCGAC	CGAAGTTGTA	GAAGAACTCT	TCTGCTGAGA	AGTCTGCTTC	5460
TCTCTTAGCT	GCTTCAAGCG	CTGCTGCGAT	TCCTCCCAAG	TCAGCCACGT	TTTCTGATAC	5520
AGTCAATTTA	CCGTTAATGG	TTGCTCCATA	AGAATCCTGT	CCATCAAATT	GGTCAATGAC	5580
TTTTTGTGTT	TTCTCCTTGA	AGGCAGCATA	GTCGCTCTCT	GTCCACCAAT	CCTTGAGGCT	5640
ACCATTTTCG	TCAAAGGAAG	CCCCGTTAGT	ATCAAAGGCG	TGGGAAATTT	CATGGGCAAT	5700
CACTGCCCCA	ATACCACCGT	AGTTAGCAGA	AGATGACTGA	TGCAAGTCAT	AGAAAGGCGC	5760
CTGTAAAATG	GCCGCTGGAA	AGACAATCAG	GTTCTTCTGA	GGATTGTAGT	AGGCATTGAC	5820
CATATGAGCA	GGCATGCCCC	ATTCCTTATA	ATCTACAGGC	TGGTTCCACT	TACTCCAACT	5880
GTGCTTGATT	TCCACACGCG	CAAAGGCTAG	AGCATTCTCA	AAAAGACTGG	CAGTTTCATT	5940
CACTACCTTA	TCCTTGTAAC	GTGCAGGCAA	TTCTTCTGGA	TAGCCAATAT	AAGGTTTGAT	6000
CACATTGAGC	TTCACGATAG	CCTGTTTACA	GGTTTCTGGA	GTGAGCCAGT	CATTCTTAAG	6060
CAGACGCTCC	TTATAAACAT	CAATCATGGT	TGCCACTTTT	TTCTCCACAT	CCGCCTTGGC	6120
TTCTGGAGAG	AACTTCTCAC	GGGCGTACCA	AAGACCCAGG	GCTTGCTTGA	AAGGTTCTTG	6180

			850					
TGCTAGATGA	TAAGCTGCTT	TGACCTTATC		GGAACTCCAG	AAAGGCACG	6240		
GCTGTAGGCA	CCAGACAAAA	CACGGATATC	CTCTGTTAAA	TAGCTGGTTG	AAAGATTGAC	6300		
AACACTCAAA	ATCAAGGTTG	CTTTAAGGAG	AGACCAGGCT	TCCTCACTGT	AGAATTGCTC	6360		
TGCTGCTTGC	CAGAAACGTT	CCTCGTCTAC	AATAACCTTG	TCTGGTAATT	GCCCAATAAC	6420		
TGCTTTGAAG	AAGTCATCCA	AAGGTAGGGC	AGGCGCGAAT	TTCTTGAAAT	CTTCGTAAGA	6480		
ATATGGATGA	TAGAGTTTAG	CATATTCTGA	ACTTTCTTCA	TTAGAGAGCA	CCACTGCCGC	6540		
AACTCGGCGG	TCCAATTCAA	GTCTTTTTTC	TAGCAAGTCT	TCAATTTCTT	CATCAGAGAA	6600		
ATCATAAGCC	TTGAGGAGAT	TTGCGCTGCT	TTCTTTCCAA	AGAGTCAAGA	GCTCTTCGCG	6660		
CTGAGGATGT	TCTTCTGCAT	AGTAGGTCGT	ATCTGGCAAG	ATTGTGCTTG	GAGCGCTAGC	6720		
CCATAGAACA	TTGATTCTAG	CATCCATAAA	GTCTGGCGAT	ACACCAAAAG	GAAGGAAGTT	6780		
TGGTTTTCCT	GCAAGCTCAA	ACTCTGCTAG	TTTAGCTGTA	AAATCCGCAA	AAGTCTCCAA	6840		
TTCTTGGAAT	TCTTTAAGGA	GTGGTAAGAC	AGGTGTGATA	CCGTCAGCTT	CTCTCTTGTC	6900		
AAAATCACGA	ACTAGGCGGT	GGTATTTGAC	AAAGTTTTCC	AAGATAGCAT	CCTCAGGCAC	6960		
PTCTTCACCT	GCTAACCACT	TGTCTGTTGT	CGCCAGCATC	AGGTCTTCAA	TTTCCTGGTC	7020		
TAAATCAACA	AAACCTCCTG	TTTGAGACTT	ATCTGCTGGG	ATTTCAGCTG	TCTGTTGCCA	7080		
TTCTCCATTG	ATAGCATCAT	AAAAATCATC	TTGATAACGT	GTCATCTTGT	TCTCGCTTTC	7140		
ATTTGTATTT	GCATTTATCT	ТААСАААААТ	CG			7172		
(2) INFORMATION FOR SEQ ID NO: 121:								
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 4518 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>								

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 121:

CGGGAAGTTA	TGCGATCTAG	ACTTCGTTCC	TGTACAGCTA	CTTTCTCAGG	TGGTCTTGTT	60
GTTTGTATGA	GTTTGTTTAG	AGAGGATCTT	TCTATGTCTT	TCTTTCTTAT	TTTTGTTTTA	120
TATGCTTTTC	TGATTTCTTA	TCTAATTTAT	GGTTATTTCA	GACTAAAAAG	GAAATACCGA	180
GTAGATGAAT	AGCAAGGTTC	TAGGTCTTCA	GATTGATTTT	TAGCACTCTT	GATAAAAGAG	240
TGCTAATTTT	TTGAGTTTTT	GTCTTGACAT	TCTCTTCTAA	GGGTGTATAA	TAGAATCATG	300
AGTTAGCACT	TGGATGCATT	GAGTGCTAAT	TGATCAGACA	GAGAGGAGTG	ATGAGATGGT	360
TACAGAGCGT	CAGCAGGATA	TTTTAAATCT	GATTATTGAC	ATCTTTACCA	AAACGCACGA	420

ACCTGTCGGA	TCAAAAGCCT	TGCAAGAGTC	TATTAACTCT	AGCAGTGCAA	CCATTCGTAA	480
TGACATGGCG	GAACTAGAAA	AACAAGGGTT	GCTTGAGAAG	GCTCATACTT	CAAGTGGTCG	540
GATGCCAAGT	GTTGCTGGTT	TTCAGTACTA	TGTGAAACAC	TCACTGGATT	TTGACCGGCT	600
GGCTGAAAAT	GAGGTATATG	AGATTGTCAA	AGCCTTTGAT	CAGGAATTCT	TCAAATTGGA	660
GGATATTCTG	CAAGAGGCTG	CTAACTTACT	AACAGACCTG	AGTGGCTGTA	CGGTAGTGGC	720
ACTGGATGTT	GAGCCGAGCA	GGCAACGTTT	GACAGCCTTT	GATATCGTTG	TTTTGGGGCA	780
ACATACAGCC	TTGGCGGTAT	TTACCCTAGA	CGAGTCGCGA	ACGGTTACTA	GTCAGTTTCT	840
GATTCCAAGG	AACTTCTTGC	AGGAGGATTT	GCTGAAACTG	AAGAGCATCA	TTCAGGAACG	900
TTTCCTCGGT	CACACCGTTT	TAGATATTCA	CTACAAGATT	CGGACGGAGA	TTCCGCAGAT	960
TATCCAGCGT	TACTTTACAA	CAACGGATAA	TGTCATCGAT	CTCTTTGAAC	ACATCTTTAA	1020
GGAAATGTTC	AACGAAAACA	TTGTGATGGC	GGGCAAGGTC	CATCTCTTGA	ATTTTGCCAA	1080
TCTAGCAGCC	TATCAGTTCT	TTGACCAACC	GCAAAAGGTG	GCCTTGGAGA	TTCGTGAGGG	1140
GTTGCGTGAG	GATCAGATGC	AAAATGTTCG	TGTTGCAGAC	GGTCAAGAGT	CCTGTTTAGC	1200
TGACCTAGCG	GTAATCAGTA	GTAAGTTCCT	CATTCCTTAT	CGGGGAGTTG	GAATTCTAGC	1260
CATTATCGGT	CCAGTTAATC	TGGATTACCA	ACAGCTAATC	AATCAAGTCA	ATGTGGTCAA	1320
CCGTGTTTTG	ACCATGAAGT	TGACAGATTT	TTACCGCTAC	CTCAGCAGTA	ATCATTACGA	1380
AGTACATTAA	GATTGAAATC	ATTAAAGGAG	GCGAACATGG	CCCAAGATAT	AAAAATGAA	1440
GAAGTAGAAG	AAGTTCAAGA	AGAGGAAGTT	GTGAAAACAG	CTGAAGAAAC	AACTCCTGAA	1500
AAGTCTGAGT	TGGACTTGGC	AAATGAACGT	GCAGATGAGT	TCGAAAACAA	ATATCTTCGC	1560
GCTCATGCAG	AAATGCAAAA	TATCCAACGC	CGTGCCAATG	AAGAACGTCA	AAACTTGCAA	1620
CGTTATCGTA	GCCAGGACTT	GGCAAAAGCA	ATCTTACCAT	CTCTTGACAA	CCTTGAGCGT	1680
GCACTTGCAG	TTGAAGGTTT	GACAGATGAT	GTGAAGAAGG	GCTTGGGGAT	GGTGCAAGAA	1740
AGCTTGATTC	ACGCTTTGAA	AGAAGAAGGA	ATTGAAGAAA	TCGCAGCAGA	TGGCGAATTT	1800
GACCATAACT	ACCATATGGC	CATCCAAACT	CTCCCAGCAG	ACGATGAACA	CCCAGTAGAT	1860
ACCATCGCTC	AAGTCTTTCA	AAAAGGCTAC	AAACTCCATG	ACCGCATCCT	ACGCCCAGCA	1920
ATGGTAGTGG	TGTATAACTA	AGATATAAAG	CCCGTAAAAA	GCTCGCAGTA	AAAATAGGAG	1980
ATTGACGAAG	TGTTCGATGA	ACACAAGAAA	ATCTATCTTT	TTTACTCAGA	GCTTAGGGCG	2040
rgttcgattc	GGCAATTCTG	ACGGTAGCTA	AAGCAACTCG	TCAGAAAACG	GCAATCGCTA	2100
TGGCGTTTGC	СТАССТТССТ	TACTAACTCG	ТССТССАВАТ	ААААТССАТТ	TCGACTCCTC	2160

852 GTGTCGCAAT TTACATAATA GAAAACTTGT CCGAAACGAC AATAAACTAT GAAGAAAGAT 2220 AAAATATGTT TGGCTTTGTA ATAGTGAGCG AAGCGAACCA AACACGATAC TCTTCGCCGT 2280 GGCGCTATTT GCGCAAATTT TGAGACCTTA GGCTCAAAGT TTAGTCAAAG AGATTGACGA 2340 AGTCAAGCTC TGACGGCGTC GCCACTGTCG CCACTTAAGA AGAGTATCAA AAAGAAAAAT 2400 AGAAAATTAA CTAACAAGGA GAAAAACACA TGTCTAAAAT TATCGGTATT GACTTAGGTA 2460 CAACAAACTC AGCAGTTGCA GTTCTTGAAG GAACTGAAAG CAAAATCATC GCAAACCCAG 2520 AAGGAAACCG CACAACTCCA TCTGTAGTCT CATTCAAAAA CGGAGAAATC ATCGTTGGTG 2580 ATGCTGCAAA ACGTCAAGCA GTTACAAACC CAGATACAGT TATCTCTATC AAATCTAAGA 2640 TGGGAACTTC TGAAAAAGTT TCTGCAAATG GAAAAGAATA CACTCCACAA GAAATCTCAG 2700 CTATGATCCT TCAATACTTG AAAGGCTACG CTGAAGACTA CCTTGGTGAG AAAGTAACCA 2760 AAGCTGTTAT CACAGTTCCG GCTTACTTCA ACGACGCTCA ACGTCAAGCA ACAAAAGACG 2820 CTGGTAAAAT TGCTGGTCTT GAAGTAGAAC GTATTGTTAA CGAACCAACT GCAGCAGCTC 2880 TTGCTTATGG TTTGGACAAG ACTGACAAAG AAGAAAAAAT CTTGGTATTT GACCTTGGTG 2940 GTGGTACATT CGACGTCTCT ATCCTTGAAT TGGGTGACGG TGTCTTCGAC GTATTGTCAA 3000 CTGCAGGGA CAACAACTT GGTGGTGACG ACTTTGACCA AAAAATCATT GACCACTTGG 3060 TAGCAGAATT CAAGAAAGAA AACGGTATCG ACTTGTCTAC TGACAAGATG GCAATGCAAC 3120 GTTTGAAAGA TGCGGCTGAA AAAGCGAAGA AAGACCTTTC TGGTGTAACT TCAACACAAA 3180 TCAGCTTGCC ATTTATCACT GCAGGTGAGG CTGGACCTCT TCACTTGGAA ATGACTTTGA 3240 CTCGTGCGAA ATTTGACGAT TTGACTCGTG ACCTTGTTGA ACGTACAAAA GTTCCAGTTC 3300 GTCAAGCCCT TTCAGATGCA GGTTTGAGCT TGTCAGAAAT CGACGAAGTT ATCCTTGTTG 3360 GTGGTTCAAC TCGTATCCCT GCCGTTGTTG AAGCTGTTAA AGCTGAAACT GGTAAAGAAC 3420 CAAACAATC AGTAAACCCT GATGAAGTAG TTGCTATGGG TGCGGCTATC CAAGGTGGTG 3480 TGATTACTGG TGATGTCAAG GACGTTGTCC TTCTTGATGT AACGCCATTG TCACTTGGTA 3540 TCGAAACAAT GGGTGGAGTA TTTACAAAAC TTATCGATCG CAACACTACA ATCCCAACAT 3600 CTAAATCACA AGTCTTCTCA ACAGCAGCAG ACAACCAACC AGCCGTTGAT ATCCACGTTC 3660 TTCAAGGTGA ACGCCCAATG GCAGCAGATA ACAAGACTCT TGGACGCTTC CAATTGACTG 3720 ATATCCCAGC TGCACCTCGT GGAATTCCTC AAATCGAAGT AACATTTGAC ATCGACAAGA 3780 ACGGTATCGT GTCTGTTAAG GCCAAAGACC TTGGAACTCA AAAAGAACAA ACTATTGTCA 3840 TCCAATCGAA CTCAGGTTTG ACTGACGAAG AAATCGACCG CATGATGAAA GATGCAGAAG 3900 CAAACGCTGA AGCCGATAAG AAACGTAAAG AAGAAGTAGA CCTTCGTAAT GAAGTAGACC 3960

853

AAGCAATCTT	TGCGACTGAA	AAGACAATCA	AGGAAACTGA	AGGTAAAGGC	TTCGACGCAG	4020
AACGTGACGC	TGCCCAAGCT	GCCCTTGATG	ACCTTAAGAA	AGCTCAAGAA	GACAACAACT	4080
TGGACGACAT	GAAAACAAAA	CTTGAAGCAT	TGAACGAAAA	AGCTCAAGGA	CTTGCTGTTA	4140
AACTCTACGA	ACAAGCCGCA	GCAGCGCAAC	AAGCTCAAGA	AGGAGCAGAA	GGCGCACAAG	4200
CAACAGGGAA	CGCAGGCGAT	GACGTCGTAG	ACGGAGAGTT	TACGGAAAAG	TAAGATGAGT	4260
GTATTGGATG	AAGAGTATCT	AAAAAATACA	CGAAAAGTTT	ATAATGATTT	TTGTAATCAA	4320
GCTGATAACT	ATAGAACATC	AAAAGATTTT	ATTGATAATA	TTCCAATAGA	ATATTTAGCT	4380
AGATATAGAG	AATTATATTA	GCTGAACATG	ATAGTTGTAT	CAAAAATGAT	GAAGCGGTAA	4440
GGAATTTTGT	TACCTCAGTA	TTGTTGTCTG	CATTTGTATC	GGCGATGGTA	CCGTATCTGA	4500
CGAACGTTCA	GCTTATAT					4518

#### (2) INFORMATION FOR SEQ ID NO: 122:

#### (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 8145 base pairs
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 122:

TGCTATTTC GATTCCCTTG GGCGTTTTGA TTGCCTTTGC CTTGCAAGTC CATTGGAAGC 60 CCCTCCATTA TCTGATTAAC ATTTACATCT GGGTTATGCG AGGAACCCCC TTACTCTTGC 120 AACTGATTTT TATCTATTAT GTGCTCCCAA GTATTGGGAT TCGTTTAGAC CGCCTTCCTG 180 CAGCTATTAT TGCCTTTGTT CTCAACTATG CAGCTTACTT TGCAGAAATT TTCCGTGGGG 240 GAATTGACAC TATTCCAAGA GGACAGTATG AGGCCGCCAA GGTCTTGAAG TTTAGCCCTT 300 TTGACAGAGT GCGCTATATT ATCTTGCCCC AAGTGACCAA GATCGTTCTT CCTAGTGTCT 360 TTAATGAAGT TATGAGTTTG GTCAAGGATA CTTCTTTGGT CTATGCTCTC GGAATTTCAG 420 ACCTTATCTT GGCTAGTCGA ACAGCTGCTA ACCGCGATGC TAGTCTAGTT CCTATGTTCT 480 TGGCAGGAGC CATTATTTG ATTTTGATTG GGATTGTGAC AATTATTTCC AAAAAAGTTG 540 AGAAGAAGTA TAGTTATTAT AGATAGGAGG CTGCCATGTT AGAATTACGA AATATCAATA 600 AAGTCTTTGG AGACAAACAA ATCCTGTCTA ATTTCAGTCT AAGTATTCCT GAAAAGCAAA 660 TCCTGGCTAT CGTTGGACCT TCTGGTGGAG GTAAGACAAC TCTTTTACGT ATGCTTGCAG 720 GTCTTGAAAC CATTGATTCA GGGCAAATCT TTTATAATGG ACAACCTTTA GAGCTGGATG 780

AATTGCAGAA	GCGCAATCTA	CTGGGATTTG	854 TCTTCCAAGA	ТТТТСААСТА	TTTCCTCATC	840
TATCAGTTCT	GGAAAATTTG	ACTTTATCGC	CTGTGAAGAC	CATGGGAATG	AAGCAGGAAG	900
AGGCTGAGAA	GAAGGCGAGT	GGACTCTTGG	AACAGTTAGG	ACTAGGAGGA	CACGCAGAGG	960
CCTATCCTTT	CTCACTATCT	GGTGGGCAAA	AGCAGCGGGT	GGCTTTGGCG	CGTGCTATGA	1020
TGATTGACCC	AGAAATCATT	GGCTACGATG	AACCAACTTC	TGCCCTGGAT	CCAGAATTAC	1080
GTTTGGAAGT	GGAGAAGCTA	ATCTTGCAAA	ATAGGGAACT	TGGGATGACC	CAGATTGTGG	1140
TTACCCATGA	TTTGCAGTTT	GCTGAAAATA	TCGCAGATGT	ATTATTGAAA	GTAGAACCTA	1200
AATAGGAGGA	AAAATGGATG	AAAAAATGGA	TGCTTGTATT	AGTCAGTCTG	ATGACTGCTT	1260
TGTTCTTAGT	AGCTTGTGGG	AAAAATTCTA	GCGAAACTAG	TGGAGATAAT	TGGTCAAAGT	1320
ACCAGTCTAA	CAAGTCTATT	ACTATTGGAT	TTGATAGTAC	TTTTGTTCCA	ATGGGATTTG	1380
CTCAGAAAGA	TGGTTCTTAT	GCAGGATTTG	ATATTGATTT	AGCTACAGCT	GTTTTTGAAA	1440
AATACGGAAT	CACGGTAAAT	TGGCAACCGA	TTGATTGGGA	TTTGAAAGAA	GCTGAATTGA	1500
CAAAAGGAAC	GATTGATCTG	ATTTGGAATG	GCTATTCCGC	TACAGACGAA	CGCCGTGAAA	1560
AGGTGGCTTT	CAGTAACTCA	TATATGAAGA	ATGAGCAGGT	ATTGGTTACG	AAGAAATCAT	1620
CTGGTATCAC	GACTGCAAAG	GATATGACTG	GAAAGACATT	AGGAGCTCAA	GCTGGTTCAT	1680
CTGGTTATGC	GGACTTTGAA	GCAAATCCAG	AAATTTTGAA	GAATATTGTC	GCTAATAAGG	1740
AAGCGAATCA	ATACCAAACC	TTTAATGAAG	CCTTGATTGA	TTTGAAAAAC	GATCGAATTG	1800
ATGGTCTATT	GATTGACCGT	GTCTATGCAA	ACTATTATTT	AGAAGCAGAA	GGTGTTTTAA	1860
ACGATTATAA	TGTCTTTACA	GTTGGACTAG	AAACAGAAGC	TTTTGCGGTT	GGAGCCCGTA	1920
AGGAAGATAC	AAACTTGGTT	AAGAAGATAA	ATGAAGCTTT	TTCTAGTCTT	TACAAGGACG	1980
GCAAGTTCCA	AGAAATCAGC	CAAAAATGGT	TTGGAGAAGA	TGTAGCAACC	AAAGAAGTAA	2040
AAGAAGGACA	GTAAGATAAA	ATAGTGGCTG	AAACTGCGTT	TTGATTAGCA	AAACGTAGTT	2100
TTTTTTGTAA	TCTAGGAAAA	CGATAATAGC	GATTGAATAT	GGATAATTGA	ATATGGAATA	2160
GCCCACTGTG	ATTTCTAAAA	CATTGTTAAA	AATTGATTTG	ACTTCCAAAA	TTAAAATGTT	2220
CTGTAATGAA	ATACTGATGT	AACTGTTTTA	GGAACAATAA	AACGCATAAT	ATCAAGGTTT	2280
TTGCACCTTA	CATTATGCGT	TTTTGTGATT	TTAAGACTTG	TTAGCTGATT	TTTTACAATC	2340
CTGCGAAATC	TTTGATTTCT	TGTGCTGACA	TTGAAGAGTC	GCAACGGACG	TTGATTTGTC	2400
CATCTGTAAT	ATGAACAAAA	CCTGGTACAG	TTGGGATTCC	ATAGCGTGAG	CGGAATGCTT	2460
GCAAATCATT	GAGTTGGCTT	GGTTCTTCAC	TATTGATGAA	GTAAATGTGA	GCTTTGGTTT	2520
CAGCTACGAC	ACCTGACAAT	GTACCTGCAA	ATTTACGGCA	GTAAGGGCAA	GTTTTGCGAC	2580

	CGATAAAGAA	GGTTGCAGTT	TCTTTTTTAT	CAAGAGCTTC	TTGCGCACGC	ACAACTGTAG	2640
	TGACTTCAAG	GTCTTTGATG	ТТАТСТАААА	ATTGTTCCAT	GAGATTACCT	CGCTTTCATT	2700
	GATAAGTCTA	GTATGCCATA	AAGTTTCTAA	AATTGCTTAG	ATTTGATACG	AAAAAAGATG	2760
	AGGTTGGTTG	GTCTCATCTT	TTATAGGTCT	TTATTTTACA	AATGCATTGA	TTTCTGCTTC	2820
	GATGTTAGCA	ATCTTAGCTT	GTGATTCTTC	GTTGGTTTCC	CCTACAACTG	CAATGTAGAA	2880
	CTTGATTTTT	GGTTCTGTAC	CTGAAGGGCG	AACGGCAATC	CATGAACCGT	CAGCAAGTGT	2940
	GTATTTCAAC	ACATCACTTG	GAGGAGTTGT	CAAGTTTGTA	ACAGTACCGT	CAGCAACAGT	3000
	AGCAGTTTGT	GCCTTGAAGT	CTTCTACGAC	AGTGATAGCT	GTTGCGTTCC	ATTCTGTTGG	3060
	AGCATTGTTG	CGGAATTTAG	CCATAATCGC	TTTGATTTGT	TCAGCACCAT	CGACACCTGA	3120
	AAGAGTAACA	GAGATTGTTT	TTTCTGCGTA	GTAGCCATAT	TCTTTATAGA	TTTCTTCGAT	3180
	ACCGTCAGCA	AGTGTCAAAC	CACGAGAACG	GTAGTAGGCA	GCAAGTTCAG	CAACTACAAG	3240
	AACGGCTTGG	ATGGCATCTT	TATCACGTAC	AAATGGTTTA	ATCAAGTAAC	CGAAGCTTTC	3300
	TTCAAATCCC	ATCATGTAAG	TGTGGTTGTG	TTTTTCTTCG	AATTCTTGGA	TTTTTTCAGC	3360
	GATAAATTTG	AAACCTGTCA	AGACGTTGAA	CATAGTTGCG	CCGTAGCTTT	CAGCAATCTT	3420
	CGTTACCAAG	TCAGTTGAAA	CGATAGATTT	GCAGAGAGCG	GCATTTTCAG	GAAGAGTTCC	3480
	AGCGTTTTTG	TGAGCTTCCA	AGATGTATTT	AGCCATGATA	GCACCGATTT	GGTTACCTGA	3540
	AAGGTTGAGG	TAGCTACCAT	CTTTTTGAAG	AACTTCAACA	CCAACACGGT	CAGCGTCTGG	3600
	GTCAGTTGCG	ACAAGAACAT	CTGCACCAAC	TTGACGACCA	AGTTCTTCAG	CAAGGGCAAA	3660
	GGCTGCTTGG	CTTTCTGGGT	TTGGAGATGT	TACAGTTGAA	AAGTCTGGGT	CAGCAGTTGC	3720
	TTGCGCTTCA	ACAACTTGAA	CAGAGTCAAA	TCCTGCTTGG	GCAAGAGCAC	GACGAGCCAA	3780
	CATTTCACCA	GTACCATGAA	GTGGTGTGTA	GACAATCTTC	ATGTCTTTAC	CAAATTCTTC	3840
٠	AATCAAGGCT	GGGTTGATGT	TTATGTCCTT	AACCTCTTTA	AGGTATTCTA	TGTCAACAGC	3900
	TTCGCCGATA	ACTTCAATCA	AGCCAGAAGC	TTTTTCAGTT	TCCACATCAG	CAACTTCAAC	3960
	TGCAAATGGG	TTTTCGATTG	CACGGATATA	AGTAGTCAAA	GCGTCCGCAT	CGTGTGGAGG	4020
,	CATTTGTCCA	CCGTCTTCAC	CGTAAACCTT	GTAACCGTTA	AATGGAGCAG	GGTTGTGGCT	4080
,	GGCTGTGACC	ATGATACCTG	CGAAACAGTT	GAGATGACGA	ACTGCAAATG	ATAGTTCTGG	4140
	AGTCGGACGA	AGGCTTTCAA	ATACGTAAGA	TTTGATGCCG	TGTTTAGCAA	GAACTGCCGC	4200
	AGATTCAAAG	GCAAACTCAG	GTGAGAAGTG	ACGGCTATCG	TAGGCAATTG	CTACACCGCG	4260
,	TTCTTTCTCG	TTTCCACCTT	TTGACTCAAT	CAAACGAGCC	AATCCTTCAG	TAGCTTGGCG	4320

856 AACAACGTAG ATGTTGATAC GGTTTGTACC AGCACCAACC AAGCCACGCA TACCTGCAGT 4380 ACCAAATTCA AGATTGTAT AGAAGGCATC TTCCTTAGTT TTTTCGTCCA TATTTTCCAA 4440 ATCTTGACGA AGGTAGTCAC GAAGCTCCAC AAAATCAACC CATTTCTGGT AATTTTCTTG 4500 GTAAGACATT CAAATTCTCC TTTATTTTTA AAACATTTAA TCAGTTTAAT TATATCATTT 4560 TTTTTAGTTT TAGTAAAACC TTATCTGCTT CGAACATCTC TTCAAACCAG GTCAGATTGA 4620 ATTTTGGGGT TATATGATGT TGAGGCTAGG AAAAATTCAA TTTCAGTAAA AAAAGTAAGT 4680 CTTCTCATAA CAAAACATTG ATATAGTTAC TTAGTTTTAA ACAAGCATAT TATAATAAAG 4740 CTATGGCATA TAGTACTGAT TTTAAACAGC GAGCATTAGA TTACATCAAA GAGGGGCACA 4800 GCCATGTCGA GGCAGCCAAG TTTTTTGGTG TTGGCGTCAG AACTCTCTTC ACGTGGGAAA 4860 AGAAAGACGT GAACAAGAAC ACATAGAGAG GAAAAAGCGA GTCGTCAAAA ACCGAAAGAT 4920 TCCTTTAGAG GAATTGAAAG CCTTTGTAGA GGCTCATCCA GATGCTTTTT TACGGGAAAT 4980 TGCGGCACAT TTTGATTGTG CTGTTCCTTC AGTATGGGCA GCTTTAAAGC AGATTAAGGT 5040 CACTTTAAAA AAAGATGACG AGCTTTAAGG AACAAGACCC AGAAAAGTAG CCTTATTTCT 5100 TAAGAATTTT AATAGTTTAA AGCACCTAGC ACCTGTTTAT ATTGATGAAA CAGGAATCGA 5160 CCGCTATCTC TATCGTCCTT ATGCAGGGGC TCCTAGAGGG GAGAAAGTCT ATGAAAAGAT 5220 TAGCGGACGT CGTTTTGAGC GAACTTCAAT TGTTGCAGGA CAAGTAGACG GAGAGTTTAT 5280 AGCTCCCATG ATTTACAAGA AAAGCATGAC AAGCGATTTC TTTGTGGAGT GGTTCAAAAC 5340 GCAACTCCTA CCTGCTTTGA AGACACCTCA TGTTATTGTC ATGGGCAATG CTGGTTTTCA 5400 TCCCAAGAAC ATTTTGGATG AACTCTGCAT CCAAGATAAA CACTTTTTCT TACCTCTACC 5460 ACCTTATTCA CCGGATTTGA ATCCTATTGA GCAAGCTTGG GCTATCTTGA AAAAGAAAGT 5520 GACGGATGTA TTAAGGGAAG TTCCAACTAT TTTTGAATGT TTGGAATGCT TTTTTAAAAC 5580 TAGATGACTA TAACGGTTCT AAAGGAACCT ATCGAGTAGT CATTAAAACT AAGGATACTG 5640 CTGGTTAAGA GAAGACGGTA TACAATCAAA CCATTCACCG TGTAGCCGAA ATCGTTCAGA 5700 ATGAAGACTT GTATCAGAAT GAAGACTTGT ATAAGAAAGG TTTGAATGTT GAACTTGCGC 5760 ACCAACAAT TAAGGGATTT TTTGAAGCAG AGTTTAAAAA TCGTATTAAT GGAGTTCTTA 5820 ATACTAAAAT AAAAAATAGT ACATTAAATC GTGTAAATAA AAAAACTATA CACCAGAGCA 5880 ACAAAAACTC CATGATCAAT TTGAAGCAGA AGCAACGGAA GATGCTAAAA AACAAGGCGA 5940 TATTGTGTTG AATGTTGACC AGGATTTCAT GAGCATATCT AAGTCTAATA AAAGTGGTTC 6000 AGACTGGAAG AAAACTTTCA CAGTGAGGAT AACCAATAGG CTAGCAAATG ACTTGAATAA 6060 TGTCTTGAAA CAGGTTGATA AAGATACTCC TAATACCCCA ACTTGGCTAA ACTCAGCTGC 6120

Τ	TCTAAAGCT	AAAGATGATG	ACAGAGTATA	TAAACTACTG	AAGACTCTTA	TACCAGGAGA	6180
A	AATTACCTA	TCATGTTAAG	GATAATCAGC	TAGAAGTAGA	AACAGATAAA	TACACATATA	6240
C	TGCCGCTAG	AAATGGTAGT	AAGGAAGTTG	GTATTCAAGA	GTCAGATATA	GCAGCAACTC	6300
Т	AAGTGCCGA	TGAATATAAT	TCTAATCGCC	AAACTTTTGA	GAGAGAATAC	AAATACAAAA	6360
G	CAAATGCCC	TTAATAATGG	TTGGGCTAGA	TCTGGTTCTG	AAGAGTTCAA	AAAGTTCTCC	6420
C	ACTTTGTAG	GGGTAGACAA	AGGGATTGTG	CGAACGAATG	TACTGACTGG	TAAAAAACTA	6480
Т	CTGATAAGA	TTAGGAAAGA	AGTGGGCTCT	GGAGATAGCA	AACTAGGAAA	AGGCGGCTAT	6540
Т	TCTCTACTG	GGGATGTTCT	ATTAGGAAAA	GATGTTGTTT	CTTATACCGT	ACAAGTATTT	6600
Т	CAGAGAATA	ATGAAAGAGT	AGGAGTAAAC	ACTCAAAGTC	ACCGTGTTCA	GTATAATCTC	6660
С	CAATTCTAG	CTGACTTTTC	AGTCATCCAA	GATACTGTGG	AACCATCACG	AACCGTTGTT	6720
G	ААААААТСА	TTCCAAAACT	AAATATTCCC	GAAGAAGAGA	AAGGGAAAAT	AACCGAAGAA	6780
A	TCAAGAAAA	AGAAAAAAAC	CTCAGAATTG	GCAGAACTAA	TCTCAGAAAA	TGTGAAAGTT	6840
С	GCTATGTTG	ATGAACAAGG	GCGTTTGCTA	TCATTGAAAA	ATGATACTGG	AATTGGAGAA	6900
A	AAGAAAGTG	ACGGAACCTA	CATTACCAAT	AAAAAACAAC	TGATTGGTAC	CAGCTATAAT	6960
G	TCACAGATA	AAAAACTCAG	TAGCATGACT	ACTACTGACG	GAAAATATTA	TACTTTTAAA	7020
G	AAGCAGATA	CAAATTCTGC	AAGTTTAACT	GGGAATATTG	TAAGCGAAGG	TAGAACAGTG	7080
Α	CCTTAGTTT	ATAGAGAAAG	CGAAGCGCCA	ACCACTGCTA	CAGTAACAGC	CAATTACTAT	7140
A	AAGAAGGTA	GGCAAGAGAA	GTTGGTAGAG	TCTGTTATAA	AAGCTGATTT	AGCGATAGGT	7200
T	CTGAGTATA	CCACAGAATC	AAAAACTATT	GAAGGGAAAA	CAACAACTGA	GGACAAAGAA	7260
G.	ACCGAGTTA	TCACAAGGAA	AACAACATAC	ACCTTGGTAG	CAACTCCTGA	AAATGCGTAC	7320
C.	AGAAGACGG	TGCAACAGTT	GACTATTACT	ACCGTGAGAA	TGTTGAGGAA	ACAGTGGTTC	7380
C	CAAAACAGC	AACCTCTACT	GAGACGAAGA	CTATAACGCG	TATCATTCAT	TACGTTGATA	7440
A	AGTTACGAA	CCAAAATGTA	AAAGAAGATG	TTGTTCAACC	TGTAACCTTA	AGCCGTACAA	7500
A.	AACTGAGAA	CAAGGTCACG	GGAGTTGTAA	CCTACGGTGA	ATGGACAACA	GGAAACTGGG	7560
A	CGAGGTTAT	ATCTGGTAAG	ATTGACAAGT	ACAAAGATCC	AGATATTCCA	ACAGTTGAAT	7620
C	ACAAGAAGT	TACGTCAGAC	TCTAGTGATA	AAGAAATAAC	GGTAAGGTAT	GACCGTTTAT	7680
C.	AACACCAGA	AAAACCAATC	CCACAACCAA	ATCCAGAGCA	TCCAAGTGTT	CCGACACCAA	7740
A	CCCAGAACT	ACCAAATCAA	GAGACTCCAA	CACCAGATAA	ACCAACTCCA	GAACCAGGTA	7800
C	TCCAAAAAC	TGAAACTCCA	GTGAATCCAG	ACCCAGAAGT	TCCGACTTAT	GAGACAGGTA	7860

858						
AGAGAGAGA ATTGCCAAAC ACAGGTACAG AAGCTAATGC T	FACCTTGGCT AGTGCTGGTA 7	920				
TCATGACCTT GTTAGCTGGT CTAGGATTAG GATTTTTCAA G	GAAAAAAGAA GATGAAAAAT 7	980				
AATAGATTTT AGAATCTAGG AACCAGGAAA AGCTCACAGA T	PGTGGGCTTT TTTCCTGGTT 8	8040				
TTGAGAACGA GGTCTTTCGT AAAGAATAAA AACGCTTACA A	AGTCTGTTGA ACTGGGAAAC 8	100				
TATGAATCCT ATTTTTTTAA AAATATTTCC AGAAATCAGT T	rgcgg 8	145				
(2) INFORMATION FOR SEQ ID NO: 123:						
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 8697 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear						

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 123:

CGGTACCGG	AACGATACTT	AGTCTAATTT	TGCACCTTTT	CCATGTATGG	TAAAGGTTTT	60
TCTTTTTTT	AAAAGGAAAA	CGAGAAGAGG	AGGTTCTTAT	GAAAGCAAGC	ATTGCCTTGC	120
AAGTTTTACC	CCTAGTACAG	GGGATTGATC	GGATAGCTGT	TATTGATCAG	GTCATTGCTT	180
ATCTGCAWAC	TCAAGAAGTG	ACGATGGTAG	TGACACCATT	TGAAACGGTC	TTGGAAGGGG	240
AGTTTGATGA	GCTTATGCGC	ATTCTAAAAG	AAGCGCTGGA	AGTGGCAGGG	CAGGAGGCAG	300
ACAATGTCTI	TGCCAATGTC	AAAATAAATG	TAGGAGAGAT	TTTAAGTATT	GATGAGAAAC	360
TTGAGAAGTA	TACTGAGACG	ACACATTAGT	CTATTGGGCT	TTCTCGGAGT	ATTGTCAATC	420
TGGCAGTTAG	CAGGTTTTCT	TAAACTTCTC	CCCAAGTTTA	TCCTGCCGAC	ACCTCTTGAA	480
ATTCTCCAGC	CCTTTGTTCG	TGACAGAGAA	TTTCTCTGGC	ACCATAGCTG	GGCGACCTTG	540
AGAGTGGCTT	TACTGGGGCT	GATTTTGGGA	GTTTTGATTG	CCTGTCTTAT	GGCTGTGCTC	600
ATGGATAGTT	TGACTTGGCT	CAATGACCTG	ATTTACCCTA	TGATGGTGGT	CATTCAGACC	660
ATTCCGACCA	TTGCCATAGC	TCCTATCCTG	GTCTTGTGGC	TAGGTTATGG	GATTTTGCCC	720
AAGATTGTCT	TGATTATCTT	AACGACAACC	TTTCCCATCA	TCGTTAGTAT	TTTGGACGGT	780
TTTAGGCATT	GCGACAAGGA	TATGCTGACC	TTGTTTAGTC	TGATGCGGGC	CAAGCCTTGG	840
CAAATCCTGT	GGCATTTTAA	AATCCCAGTT	AGCCTGCCTT	ACTTTTATGC	AGGTCTGAGG	900
GTCAGTGTCT	CCTACGCCTT	TATCACAACT	GTGGTATCTG	AGTGGTTGGG	AGGTTTTGAA	960
GGTCTTGGTG	TTTATATGAT	TCAGTCTAAA	AAACTGTTTC	AGTATGATAC	CATGTTTGCC	1020
ATTATTATTC	TGGTGTCGAT	TATCAGTCTT	TTGGGTATGA	AGCTGGTCGA	TATCAGTGAA	1080
AAATATGTGA	TTAAATGGAA	ACGTTCGTAG	AATTAGAATG	TTTCTGAAAA	AGAAAAGAGG	1140

AAATCAAAAT	GAAGAAAACA	TGGAAAGTGT	TTTTAACGCT	TGTAACAGCT	CTTGTAGCTG	1200
TTGTGCTTGT	GGCCTGTGGT	CAAGGAACTG	CTTCTAAAGA	CAACAAAGAG	GCAGAACTTA	1260
AGAAGGTTGA	CTTTATCCTA	GACTGGACAC	САААТАССАА	CCACACAGGG	CTTTATGTTG	1320
CCAAGGAAAA	AGGTTATTTC	AAAGAAGCTG	GAGTGGATGT	TGATTTGAAA	TTGCCACCAG	1380
AAGAAAGTTC	TTCTGACTTG	GTTATCAACG	GAAAGGCACC	ATTTGCAGTG	TATTTCCAAG	1440
ACTACATGGC	TAAGAAATTG	GAAAAAGGAG	CAGGAATCAC	TGCCGTTGCA	GCTATTGTTG	1500
AACACAATAC	ATCAGGAATC	ATCTCTCGTA	AATCTGATAA	TGTAAGCAGT	CCAAAAGACT	1560
TGGTTGGTAA	GAAATATGGG	ACATGGAATG	ACCCAACTGA	ACTTGCTATG	TTGAAAACCT	1620
TGGTAGAATC	TCAAGGTGGA	GACTTTGAGA	AGGTTGAAAA	AGTACCAAAT	AACGACTCAA	1680
ACTCAATCAC	ACCGATTGCC	AATGGCGTCT	TTGATACTGC	TTGGATTTAC	TACGGTTGGG	1740
ATGGTATCCT	TGCTAAATCT	CAAGGTGTAG	ATGCTAACTT	CATGTACTTG	AAAGACTATG	1800
TCAAGGAGTT	TGACTACTAT	TCACCAGTTA	TCATCGCAAA	CAACGACTAT	CTGAAAGATA	1860
ACAAAGAAGA	AGCTCGCAAA	GTCATCCAAG	CCATCAAAAA	AGGCTACCAA	TATGCCATGG	1920
AACATCCAGA	AGAAGCTGCA	GATATTCTCA	TCAAGAATGC	ACCTGAACTC	AAGGAAAAAC	1980
GTGACTTTGT	CATCGAATCT	CAAAAATACT	TGTCAAAAGA	ATACGCAAGC	GACAAGGAAA	2040
AATGGGGTCA	ATTTGACGCA	GCTCGCTGGA	ATGCTTTCTA	CAAATGGGAT	AAAGAAAATG	2100
GTATCCTTAA	AGAAGACTTG	ACAGACAAAG	GCTTCACCAA	CGAATTTGTG	AAATAATGAC	2160
AGAAATTAGA	CTAGAGCACG	TCAGTTATGC	CTATGGTCAG	GAGAGGATTT	TAGAGGATAT	2220
CAACCTACAG	GTGACTTCAG	GCGAAGTGGT	TTCCATCCTA	GGCCCAAGTG	GTGTTGGAAA	2280
GACCACCCTC	TTTAATCTAA	TCGCTGGGAT	TTTAGAAGTT	CAGTCAGGGA	GAATTGTCCT	2340
TGATGGTGAA	GAAAATCCCA	AGGGGCGCGT	GAGTTATATG	TTGCAAAAGG	ATCTGCTCTT	2400
GGAGCACAAG	ACGGTGCTTG	GAAATATCAT	TCTGCCCCTC	TTGATTCAAA	AGGTGGATAA	2460
GGCAGAAGCT	ATTTCCCGAG	CGGATAAAAT	TCTTGCGACC	TTCCAGCTGA	CAGCTGTAAG	2520
AGACAAGTAT	CCTCATGAAC	TTAGCGGTGG	GATGCGCCAG	CGTGTAGCCT	TACTCCGGAC	2580
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GACAAAGATG	GAACTCCACG	CTTGGTATCT	TGAGATTCAC	AAGCAGTTGC	AGCTAACAAC	2700
CCTGATCATC	ACGCATAGTA	TTGAGGAGGC	CCTCAATCTC	AGCGACCGTA	TCTATATCTT	2760
GAAAAATCGC	CCTGGGCAGA	TTGTTTCAGA	ААТТАААСТА	GATTGGTCTG	AAGATGAGGA	2820
CAAGGAAGTC	CAAAAGATTG	CCTACAAACG	TCAAATTTTG	GCGGAATTAG	GCTTAGATAA	2880

GTAGAAAAAT	AGGGAGTTGG	TGAAGATTAT	860 CCTTTACCAG	CGCCCTTTTT	CTTTTAAAAA	2940
TGAGAAAATT	TCGGTATAAT	AGTCAAACAA	GGTCAAGGTT	TAAAGAGAGA	GGTGGGTTTG	3000
TTATGAGATT	ТАААААТАСА	TCGGATCATA	TTGAGGCCTA	CATCAAGGCG	ATTTTAGATC	3060
AATCTGGTAT	CGTGGAGTTG	CAACGGAGTC	AGTTGGCAGA	TACCTTTCAG	GTTGTTCCTA	3120
GTCAGATTAA	CTACGTGATC	AAGACACGCT	TTACGGAAAG	TAGAGGCTAC	TTGGTTGAAA	3180
GTAAGCGTGG	TGGCGGAGGC	TACATTCGTA	TAGGACGGAT	TGAGTTTTCT	AGTCATCATG	3240
AAATGCTCCG	GGAGCTGCTT	TACTCGATTG	GTGAGCGAGT	CAGTCAAGAA	ATTTATGAGG	3300
ATATTCTCCA	GCTTTTGGTT	GAGCAGGAAT	TGATGACCAA	GCAGGAGATG	AATTTGCTAG	3360
AATCAGTAGC	TTTGGATCGC	GTTTTAGGAG	AAGAAGCTCC	AGTTGTTCGA	GCAAACATGC	3420
TACGTCAGAT	CATACAAGAG	GTAGATAGAA	AAGGGAAGTA	AGATGAACTA	TTCAAAAGCA	3480
TTGAATGAAT	GTATCGAAAG	TGCCTACATG	GTTGCTGGAC	ATTTTGGAGC	TCGTTATCTA	3540
GAGTCGTGGC	ACTTGTTGAT	TGCCATGTCT	AATCACAGTT	ATAGTGTAGC	AGGGGCAACT	3600
TTAAATGATT	ATCCGTATGA	GATGGACCGT	TTAGAAGAGG	TGGCTTTGGA	ACTGACTGAA	3660
ACGGACTATA	GCCAGGATGA	AACCTTTACG	GAATTGCCGT	TCTCCCGTCG	TTTGCAGGTT	3720
CTTTTTGATG	AAGCAGAGTA	TGTAGCGTCA	GTGGTCCATG	CTAAGGTACT	AGGGACAGAG	3780
CACGTCCTCT	ATGCGATTTT	GCATGATAGC	AATGCCTTGG	CGACTCGTAT	CTTGGAGAGG	3840
GCTGGTTTTT	CTTATGAAGA	CAAGAAAGAT	CAGGTCAAGA	TTGCTGCTCT	TCGTCGAAAT	3900
TTAGAAGAAC	GGGCAGGCTG	GACTCGTGAA	GATCTCAAGG	CTTTACGCCA	ACGCCATCGT	3960
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GGTGGTCTCG	AGGATTATAC	GCATGATTTG	ACAGAGCAAG	CGCGTTCTGG	CAAGTTAGAA	4080
CCAGTCATCG	GTCGGGACAA	GGAAATCTCA	CGTATGATTC	AAATCTTGAG	CCGGAAGACT	4140
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CTTGCCCAGC	GTATTGCTAG	TGGTGACGTG	CCTGCGGAAA	TGGCTAAGAT	GCGCGTGTTA	4260
GAACTTGATT	TGATGAATGT	CGTTGCAGGG	ACACGCTTCC	GTGGTGACTT	TGAAGAACGC	4320
ATGAATAATA	TCATCAAGGA	TATTGAAGAA	GATGGCCAAG	TCATCCTCTT	TATCGATGAA	4380
CTCCACACCA	TCATGGGTTC	TGGTAGCGGG	ATTGATTCGA	CTCTGGATGC	GGCCAATATC	4440
TTGAAACCAG	CCTTGGCGCG	TGGAACTTTG	AGAACGGTTG	GTGCCACTAC	TCAGGAAGAA	4500
TATCAAAAAC	ATATCGAAAA	AGATGCGGCA	CTTTCTCGTC	GTTTCGCTAA	AGTGACGATT	4560
GAAGAACCAA	GTGTGGCAGA	TAGTATGACT	ATTTTACAAG	GTTTGAAGGC	GACTTATGAG	4620
AAACATCACC	GTGTACAAAT	CACAGATGAA	GCGGTTGAAA	CAGCGGTTAA	GATGGCTCAT	4680

	CGTTATTTAA	CCAGTCGTCA	CTTGCCAGAC	TCTGCTATCG	ATCTCTTGGA	TGAGGCGGCA	4740
	GCAACAGTGC	AAAATAAGGC	AAAGCATGTA	AAAGCAGACG	ATTCAGATTT	GAGTCCAGCT	4800
	GACAAGGCCC	TGATGGATGG	CAAGTGGAAA	CAGGCAGCCC	AGCTAATCGC	AAAAGAAGAG	4860
	GAAGTACCTG	TCTACAAAGA	CTTGGTGACA	GAGTCTGATA	TTTTGACCAC	CTTGAGTCGC	4920
	TTGTCAGGAA	TCCCAGTTCA	AAAACTGACT	CAAACGGATG	CTAAGAAGTA	TTTAAATCTT	4980
	GAAGCAGAAC	TCCATAAACG	GGTTATCGGT	CAAGATCAAG	CTGTTTCAAG	CATTAGCCGT	5040
	GCCATTCGCC	GCAACCAGTC	AGGGATTCGC	AGTCATAAGC	GTCCGATTGG	TTCCTTTATG	5100
	TTCCTAGGGC	CTACAGGTGT	CGGGAAAACT	GAATTAGCCA	AGGCTCTGGC	AGAAGTTCTT	5160
	TTTGACGACG	AATCAGCCCT	TATCCGCTTT	GATATGAGTG	AGTATATGGA	GAAATTTGCA	5220
	GCTAGTCGTC	TCAACGGAGC	TCCTCCAGGC	TATGTAGGAT	ATGAAGAAGG	TGGGGAGTTG	5280
	ACAGAGAAGG	TTCGCAATAA	ACCCTATTCC	GTTCTCCTCT	TTGATGAGGT	AGAGAAGGCC	5340
	CACCCAGATA	TCTTTAATGT	TCTCTTGCAG	GTTCTGGATG	ACGGTGTCTT	GACAGATAGC	5400
	AAGGGACGCA	AGGTCGATTT	TTCAAATACC	ATTATCATTA	TGACATCGAA	TCTAGGTGCG	5460
	ACTGCCCTTC	GTGATGATAA	GACTGTTGGT	TTTGGGGCTA	AGGATATTCG	TTTTGACCAG	5520
	GAAAATATGG	AAAAACGCAT	GTTTGAAGAA	CTGAAAAAAG	CTTATAGACC	GGAATTCATC	5580
	AACCGTATTG	ATGAGAAGGT	GGTCTTCCAT	AGCCTATCTA	GTGATCATAT	GCAGGAAGTG	5640
	GTGAAGATTA	TGGTCAAGCC	TTTAGTGGCA	AGTTTGACTG	AAAAAGGCAT	TGACTTGAAA	5700
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	AAGGGAGATT	TAGTGGCAGG	CAGCACACTT	AAGATTGGTG	TCAAAGCAGG	CCAGTTAAAA	5880
	TTTGATATTG	CATAAAAGAA	TAAAAGTATC	AGCATCTGAC	CATAAGTCAC	AGTGGAGTGA	5940
	AATTCAATGA	AAATCAAAGA	GCAAACTAGG	CAGCTAGCCG	CAGGTTGCTC	AAAACACTGG	6000
	TTTGAGGTTG	CAGATAGAGC	TGACGTGGTT	TGAAGAGATT	TTCGAAGAGT	ATGAAACTAA	6060
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,	TTACCCTCCG	TCGTATTTGT	CTTAGAGCGT	GTGTAGTAGA	AAAAGAGCAG	TCTTATCTGA	6180
,	AATTTTTATT	CTTTCAAAAG	AGACCTGTTT	CTTTTTTGCA	TGTCAAATCC	GTTCTAGCTG	6240
•	GTATTTGAAA	AATCAAACTA	ATATTCAATG	AAAATCAAAG	AACAAACTAG	GAAGCTAGCC	6300
(	GCAGGTTGCT	CAAAACACTG	TTTTGAGGTT	GTAGATAGAG	CTGACGTGGT	TTGAAGAGAT	6360
,	PTTCGAAGAG	TATAAGCTGC	AAGATGAATG	ATTTTCTTGT	ATTGACGTTG	TTGTTGACAA	6420

			862			
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TAGATTGTAT	CGTGACTGTG	AAAAATGTTG	GGTATAAGAT	TAGCTTATGA	ТАААААТСС	7200
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CATTCATATA	GCTATTTATT	TGACCTTTCC	TTTTTATTAT	ATTCAACTGG	AGGGGGAAAA	7320
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GCAATTTGTT	CACGGGGTGG	ATGTCTACAA	AGAAGCAAAG	AATATTTTGC	TTTTGTATCT	7620
CCCATATACA	TTTTTGGTTA	CAATTGCTTT	TTCCTTTGTT	TTTTCTTATT	TTTATACTAA	7680
ACGCTTGCTC	AATCCTCTTT	TTTACATTTC	AGAAGTGACT	AGTAAAATGC	AAGATTTGGA	7740
TGACAATATT	CGTTTTGATG	AAAGTAGGAA	AGATGAAGTT	GGTGAAGTTG	GAAAACAGAT	7800
TAATGGTATG	TATGAGCACT	TGTTGAAGGT	TATTTATGAG	TTGGAAAGTC	GTAATGAGCA	7860
AATTGTAAAA	TTGCAAAATC	AAAAGGTTTC	CTTTGTCCGC	GGAGCATCAC	ATGAGTTGAA	7920
AACCCCTTTA	GCCAGTCTTA	GAATTATCCT	AGAGAATATG	CAGCATAATA	TTGGAGATTA	7980
CAAAGATCAT	ССААААТАТА	TTGCAAAGAG	TATAAATAAG	ATTGACCAGA	TGAGCCACTT	8040
ATTAGAAGAA	GTACTGGAGT	CTTCTAAATT	CCAAGAGTGG	ACAGAGTGTC	GTGAGACCTT	8100
GACTGTTAAG	CCAGTTTTAG	TAGATATTTT	ATCACGTTAT	CAAGAATTAG	CTCATTCAAT	8160
AGGTGTTACA	ATTGAAAATC	AATTGACAGA	TGCTACCAGG	GTCGTCATGA	GTCTTAGGGC	8220

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ATTGGATAAG	GTTTTGACAA	ACCTGATTAG	TAATGCAATT	AAATATTCAG	ATAAAAATGG	8280
GCGTGTAATC	ATATCCGAGC	AAGATGGCTA	TCTCTCTATC	AAAAATACAT	GTGCGCCTCT	8340
AAGTGACCAA	GAACTAGAAC	ATTTATTTGA	TATATTCTAT	CATTCTCAAA	TCGTGACAGA	8400
TAAGGATGAA	AGTTCCGGTT	TGGGTCTTTA	CATTGTGAAT	AATATTTTAG	AAAGCTATCA	8460
AATGGATTAT	AGTTTTCTCC	CTTATGAACA	CGGTATGGAA	TTTAAGATTA	GCTTGTAGAC	8520
AGATTAGTTT	TTTATTAAAG	TTCATATAGG	GTTAACATAA	GTGTGTTATT	CTTTGTGTAG	8580
ATAAAAGAAA	GGATACTAAT	ATGGTATTAG	CGATTATTTT	AGTAACATTC	TTTATTCGAT	8640
TGATTTTTT	AAAGCGTTCG	ATAGAGAATG	AGAAACGAAT	CCTTAGCAAT	GGCGGGG	8697

#### (2) INFORMATION FOR SEQ ID NO: 124:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 4317 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 124:

AACCATACAT ACGGCAAGGC	AAAGCTGACG	CGGTTTGAAG	AGATTTTCGA	AGAGTATTAG	60
TTGCCTTTAA AGGCATCCAC	CATCGTTTGA	AATTCTTCAT	TTGAGAGAGT	AATCCCTTTG	120
CCCATTTTAG TATGGTCTGG	ACTCCAAGCA	CGAATATCAA	ACTTTGCAGG	GGCACCATTA	180
AAGCTCACAC GGTTAATTTC	CTTGGTCCAA	CCTTTTTCGT	TTTCAGAAAG	AGTCAACAAG	240
TGCTCTTCGA TTTCAAATGT	AAATTCTGCC	ATTTTCTTCT	CCTTTTTTAG	TTTCATTAGT	300
TTATTCGTAA AATCTTGTAG	ATTTTAGGAA	AATTTTATAT	AATATTGATA	TAAAAGAAGG	360
GAGGCCAATA TGAGACATAA	ATTCCAGCAA	GTTCTAAATA	AAATACATGA	TTTTTTAAAT	420
GGATATGACC AACCTGACCA	GACTGAAACC	AACTCCCTTA	CAGCCACTAT	TGAAGAGGCT	480
ATCCAGAAAC AAACCGCTGT	TCACCTTATC	TTGTCTGAGA	CAAGCTTTAC	AGGTGACATC	540
ATCAAATATG ATCAGCAAGG	CCAGCAAATT	ATCGTGAAAA	ATTTTTCCAA	AAATGTGAGC	600
CGGATTATCC GTATAAGCGA	TATTCAACGC	CTGCGATTTG	TCCCCTCAAC	TGTCCAAACA	660
GCCCAAAAAA ATAGATTTAA (	GAAAGAGTGA	GATGTAGTTG	CTTCATCCCA	CTCTTTTTTC	720
TTAGCGAATT TGTTCAAAAT (	GTAAATGAAC	TGCGATATGA	TCTCCATAAC	CACTTCTTTC	780
CAAGTCACGT TGTAAACGAT A	AGGAAATGTA	GTGTTCTGCA	ATGGTAATGT	AACCTGCGCC	840
CAATAAACGA TGTTCAACCA 1	TAGATTGAAT	CATACTGATA	GTCGCACGTT	CCACCTTGGC	900

			864			
TTCTTGTAAA	TCCAAAACTA	CCTTCTTAGT	GACTTGAGCA	AGATTTTGAC	GCAAATCATC	960
TGTCAAAACA	TAAACAGTTT	GGGCTGCCTT	CAAGATGGCT	TGGTAAATCT	TATCTGGATT	1020
AAATTCAGCA	ATTTCGCCAT	TACGTTTGAT	TACTTGCATA	GGTTTCTCCT	TTATTCTTTG	1080
TTTTCTTTGA	TTTCTGCCAG	CATTTTTTCT	TCTTCTACTG	TCAGTTGATA	ATGTTCAAGT	1140
AAATCCGGTC	TGCGCTCGTA	GGTTTTCTTT	AAACTCTCGT	ACAATCGCCA	CTGACGAATC	1200
TTTTCATGGT	GGCCACTCAT	CAATACATCT	GGCACGACCA	TGCCTCGATA	ATCATAGGGA	1260
CGTGTGTACT	GAGGATATTC	TAAAAGACCT	GAAGAAAAAC	TATCATCTTG	GTGGCTAGAC	1320
TCCTTGCCAA	TCACTTCTGG	AATCAGGCGA	ACTGTAGCAT	CAATCATGGT	CATAGCTGCC	1380
AATTCTCCAC	CAGTGAGGAC	ATAGTCACCT	AGGGAAATCT	CATCTGTTAC	CAAGGTCTTA	1440
ATGCGCTCAT	CATAACCCTC	ATAGTGCCCA	CAGATAAAGA	TTAGCTCTTC	CTCTTGAGCC	1500
AAATCTTCAG	CATAAGCCTG	ATCAAACTGC	TTTCCAGCAG	GATCAAGGAG	AATAACGCGC	1560
GGATTTTTCT	TTTCAATAGC	ATCAAAGGAA	TCGAAAATAG	GTTGTGCTCT	GAGCAACATG	1620
CCCTGACCGC	CTCCGTAGGG	CTCATCATCT	ACATGACGGG	CCTTTTCAGC	ATTTTCTCGA	1680
AAATTATGAT	ACTGGATATC	CAAGAGCCCT	TTTTCTCGAG	CCTTTCCAAC	GATTGAGTGC	1740
TCCAGTGGAG	AAAACATCTC	TGGAAAGAGG	GTTAAAATAT	CAATCTTCAT	CGTCTAACCC	1800
TTCTAAGATT	TCCACATCGA	CCCGTTTACT	TGGAATATCA	ACATTGAGAA	CCACTGGTGG	1860
GATATAAGGT	AAAAGCAAAT	CACGTTTGCC	TTTTCGTTTG	ACCACCCAGA	CATCATTAGC	1920
ACCTGGTTGC	AGGATTTCCT	TGATGGTTCC	AACCAAGCTA	TCACCCTCAT	AGACTTCCAA	1980
ACCGATAATC	TCGTGATAGT	AAAATTCACC	ATCGTCTAGG	TCATTCAAAT	CTTCCTCAGC	2040
GACCTTGAGA	CTGTATCCCT	TGTACTTTTC	GATAGTATTG	ATATGGTACA	TATCTTTGAA	2100
TTTAATAATG	TCAAAGTTCT	TCTGTTTACG	GTGGCTAGCG	ATGGTCACTG	TTTGGACAAA	2160
CTGATCTTTT	TCATCAAACA	AAACCAGCTC	AGCTCCTTTT	TTAAACCGTT	CTTCTGCAAA	2220
ATCCGTCACA	GACAAGACTC	GCATCTCCCC	CTGTAATCCC	TGCGTATTAA	CGATTTTCCC	2280
AACATTAAAG	TAGTTCATCT	TGTCTCCTGT	AATCTCCTTT	TTTCCATCTT	ATTCTAACAA	2340
TTCTCGAATA	ATAGCCGCAA	TTTTTTCCGA	TTCTGACCAT	TGTAAATAAT	GGTGATTCCC	2400
TCCTAAAATG	AGTTTAGTAT	TGGAAGTCCA	ATATTCTGAT	TCTCTGTACT	CTTTTTCTCT	2460
ATAAGGCTGA	CAAAAAACAA	ATACAGGAAT	ATGAGCTTCT	ATAGATACAT	CCTCAAAATC	2520
TTCCTCAGTA	ATCTCTCCAG	ATATCTGAAA	TTCTGGATCT	TGATTTTCCA	ACTCTAAGCC	2580
TTTTTCTTGC	ATTAATTCCC	AGATTTTTTT	ATTCGTTTCA	GGACTAAATG	TTGCTTGAGT	2640
TAAGTTCTTA	AAATAAAGTT	CAGGACCACA	CTCGTCAATC	AGCCTCATCT	GCTCTTCCAT	2700

	TTCTGGATAA	GGATTTTCTG	AAAAATCAGC	AAACATGACT	TTTTTAGTTG	TCGGTTCAAT	2760
	TGCTACTAAA	GTCTGACGCT	TAATTGGTTT	CTCGAGTAAT	TTGCAAGCTA	AAATTCCACT	2820
	CCAACTATGT	GCACAAAGTA	TATATTCAGA	AATTCCTAAT	TCTTCAAGTA	CTTCATAAAC	2880
	CGCATCTGCA	AGATTATCTA	GATTTTTTCC	AGCTTGGTCA	TGAATCGGAC	TCCTACCTGT	2940
	GTTCGGAAAA	TCAATTGTCA	AATAACCAAT	TGTAGGAGGA	GGTTTTTCAA	GTATAAGTGA	3000
	AAAATTTTCA	TAACTTGGTA	GCAAACCTGC	TCCGTTTAAA	CAAACTAGCA	CTTTCTTTTG	3060
	CTTTTGATAA	GTAACAGAGA	GGCTACCAAT	TTCTGTAGAT	ACTTCAAACC	TCTTCATAAA	3120
	GAAATCCACT	GATTCTATAT	AATGAATTAT	TAAAAATCCT	TATCCTTTAT	TTTATCACGT	3180
	TCCAAGGATT	TTCTCAAGTT	GGAGGAAGGG	GACAATATCT	CTACTTTCCC	TTCAATAATC	3240
	CTTCCAAATT	ATGTTTATGT	TGGTAATTAA	TGGCTGCGGT	TTTGTCTTTC	TCAAAGACAG	3300
	TCTTGGTAAG	GTCAATATGA	TTAATAGCTA	CGATTGCGAC	GGTGTAGTAA	ATGATATCAG	3360
	CCAGTTCTCT	GGCAAGTTCC	TCGTTCGAAT	CCTATCCCTT	CTTTTCGACC	AGAGCGCCTA	3420
	TTCAAAACCT	CGACTACTTC	TCCGACTTCC	TCCACTAACT	TCATAAAGAG	ACCTTCATCA	3480
	GTCCGAGACT	GCTGTTAATG	TTCGATTAAG	TAGTCTTGGA	ATTGCCTAAA	CGTTCAATCT	3540
	TTTATAGTAT	ATTGAAACTA	GAATAGTACA	CCTTTACTTC	TAAAACATTG	TTAGAAATCG	3600
	ATTTGACTGT	CCTGATCGAT	TTGTCCTGTT	CTTGTTTCAT	TTTACTATAT	CTTCTATTCC	3660
	ACACAAAAAA	GCGAGACATC	CGTCCCGCCC	TTCTTATTTT	TCGTCAATAA	CGATTCTTAC	3720
	TTTTTTGTAT	TCAGTTGGGA	CAGAGTAGAC	AATCGTTCTT	ATCGCAGAAA	TAGTGCGACC	3780
	CTTACGACCG	ATTACACGAC	CCACATCGCT	TTGATCAAGA	TTCAAATGAT	ATTCCAAAAA	3840
١	TTCTGGTGTA	TCCTCAATCT	TGATAGTTAA	GGCATCTGGT	TGTGAAATTA	AGGGTTTCAC	3900
	AATCGCAATA	ATGAGATTTT	CAATCGTATC	CATCTGTCAA	CCTACTTTAA	ACTTATTTTG	3960
	AAAATTTAGA	ATCGTGGAAT	TTTTTCAATA	CGCCTTCTTT	TGAAAGGATG	TTACGTACTG	4020
١	TGTCTGAAGG	TTGAGCTCCA	TTAGCCAACC	ATGCAAGAAC	GCGGTCTTCT	TTCAAAGTTA	4080
	CTTGGTTTTC	AGCAACAAGT	GGGTTGTAAG	TTCCAACTGT	TTCGATGAAA	CGTCCGTCAC	4140
•	GTGGTGAACG	TGAATCTGCT	ACGTTGATAC	GGTAGAAAGG	ТТТТТТСТТА	GAACCCATAC	4200
	GAGTCAAACG	GATTTTAACT	GCCATTTTTA	AAGTCTCATT	TCTTTAATTT	TTTATTTCGG	4260
	TGAAATAGCT	GAGCTATTTA	GCACATGTTC	TATTATAGCA	GATTTCTGGC	ATGTGTC	4317
				_			

<sup>(2)</sup> INFORMATION FOR SEQ ID NO: 125:

<sup>(</sup>i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 4881 base pairs

866

- (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 125:

AATTTATTTG ACTGGAAATT	GTAGAGGGTT	CTCGAAATTT	CTTGAATGGT	TAAAATAAGG	60
ACAAGAGAAA ACATGGATAT	СТАТАТССТТ	GTGCCAAAAA	AACCACTGCC	CTCCCCAGAC	120
CAACCTGAGG AAAGCAGTGA	TTCTTATTTT	AGGAGTTAGG	AATGAATACA	CGAAATCAAT	180
TTAGCTGATT ATTTTTTGTT	TTTCAAGAAT	TCATCGTATT	GTTTTTGCAT	TTCGTTCAAT	240
ACTTTTCGT AGGCACCTTC	AGATTTCAAT	TTTTCCATCA	ATTCTGGAAT	CGCTTTATCT	300
GGGTCTACAG TACCAGTGTT	GATAGCTGTA	TCAAATTGTT	GCATTGTGTT	AGCAATAGCT	360
GAGATTTCAG ATTTCACATT	GTCAGTATTG	AAGATAAATC	CAAGCGCTGG	AGATTCTTTA	420
GCTTCTGCCA ATTCTTTCTT	AGAATTTTCG	ATTTGTTGGT	CTGTAACGTT	TTCGTTGATG	480
TAAAGGATCC AGTTGTTACC	AGTGTTCCAT	CCACCCATGT	GAGTGTTTCC	TTTGTAGCCA	540
TCAAGAACGC GAACACGGTT	TTCTTTACCT	TCAATTTTTT	CCCAGTTCTT	GCCTTCTGGA	600
CCGTAAACAA GACCGTTCAA	GAGTTCTGGG	TTCGTATTCA	AGAGGTTCAA	GATTTCCATT	660
GATTTTCTT TGTTCTTAGA	GTTGTTTGAG	ATGACAAAGT	TAGCAACTTG	TGTTGTTTGG	720
TTTTTCTTGA TGAAGTTAGT	AATTGGTTTG	ATTTGGATAT	CTTTGTTGGC	AACACGTGAA	780
AGCAAGCTGT TACCGTAGTC	AGCTGGTCCT	ACTGTTTCTT	CACGAACGAA	CCAAGTATCT	840
TGTTGAAGGT CAAAGGAAGT	ATCGCTTGTT	GCGACGTCTT	TTGGAATGTA	GCCAGCTTCA	900
TAGAATTTGT GAAGAGTCTT	CAAGTGTTCT	TTGAAACGAG	GCACTTCGTA	ACGGTTTACA	960
ACTTTAGTAG TATCGCCTTC	AAGGTCGATA	ACGAATGGAA	GACCGTTTGC	TACTGGGTAG	1020
TCAAAATTAT CAGATGGGAT	GAAAACTTTA	CCAATAGCAA	ATGGTACTAC	GTCTGGAGCT	1080
TTTTCTTTGA TTTGTTTCAA	GACTGGCTCA	AGAGTTTCGT	AAGAAGTAAC	ACCTGAAATA	1140
TCGATACCAT ATTTAGCAAG	GAGAGTTCCG	TTGAAGGCAA	AGTTTTGAGA	TGATGCAACG	1200
TTGGCTGCAA CTGGAACAGC	GTAAATCTTA	CCATTTACAG	TATTACCCTT	GATGTAAGCT	1260
GGGTCAAGTG CTTTGTAAAG	GTCTTTACCT	TCTTTTTTGT	ACAATTCTGT	CAAGTCAGCG	1320
TAAGCACCTT TTTGAGCATT	TACAATATAG	TTATCTGCAA	AGGCAATATC	ATAGTTTTCA	1380
CCAGATGATG TGATAACTGA	CATTTTCTTA	CCATAGTCAC	CCCAGCCAAG	GTATTGGATA	1440
TCCAATTTGG CACCAACTTT	TTCTTCAATG	ATTTTGTTGG	CATTTGCTAA	CAATTCATCC	1500
AAGTTGTCTG GTTTGTCACC	GATTTGGTAC	ATTTTGATAA	CAGGTTTGTC	ACCTGAATCA	1560

GCAGCTTTTT	TGCTGTTACC	TGTCAAATTT	CCACAAGCAG	CAAGACCTGC	AGCCAGAGCG	1620
ACTACACTAG	CAGATGCAAA	AGCATATTTT	TTCCAGTTTT	TCATGATAAA	AACTCCTTTT	1680
TTTATTTTTA	AACTTATAAA	CAATGTAATG	ATCTTATACT	СААТАААААТ	CAAAGAGCAA	1740
ACTAGAAAAC	TAGCCGCAGG	CTGCTCAAAG	CACTGCTTTG	AGGTTGTAGA	TAAGACTGAC	1800
GAAGTCAGTT	ACATATATCT	ACGGCAAGGC	GACGTTGACG	CGGTTTGAAT	TTGATTTTCG	1860
AAGAGTATTA	ACTTCACACA	AGGGAAGTTG	GGAACTGAGA	AATGTTATTT	CTCAATAAGC	1920
ACTATTCTTT	CACACCACCG	ATAGTCAAAC	CTTTTACAAA	GTAGCGTTGG	AAAAATGGAT	1980
ACAAAATCGC	GATTGGAAGG	GTTGCAACCA	CAACCATGGC	CATACGACCT	GTTTCTTTCG	2040
GTAGAGCAAC	TCCCAGTTGA	CCAATCAAGC	CGACCGCTTT	GGCAATGTAG	TCCATATTTT	2100
GTTGGATTTG	CATGAGCAAA	TATTGCAATG	GATACAAGTT	GTCACTCTTG	ATGTAAAGAA	2160
GGGCGTTGAA	CCAGTCATTC	CAGAAACCAA	GAGCTGTTAA	GAGCGTGATG	GTTGCGATAC	2220
CTGGTAGTGA	CAATGGCAAA	CAGATTTGGA	AGAAAATCCG	GGCCTCACTG	GCACCATCGA	2280
TACGAGCCGA	TTCTAGAATG	GCTTCTGGAA	TGGTCTTCTT	GAAGAAGGAA	CGCATCAAGA	2340
TGATGTTAAA	TGGTGAGAGA	AGCATTGGAA	CAATCAAGGC	CCAAACAGTG	TCACCAAGCT	2400
GAAGTACACG	GGTCACCATG	ATATAACCTG	GTACCAAACC	AGCGTTGAAC	AACATACTGA	2460
GAAGGACGAA	GATGGTAAAG	AATCTGCGAT	ACTTAAAGGT	TGTCCGTGAA	ATAGCGTAGG	2520
CATAGGTTGT	TGTGATAAAG	ACATTTGTCA	ATGTCCCAAC	TACGGTTACA	AAGACAGAGA	2580
TGAAGAGGGC	TTGTAGGATT	TTATCCTTAA	ACTGTGCCAA	AAACTCAAAA	CCGTCTAAGC	2640
CAAATTGGGA	TGGGAAGAAG	CTATAGCCGT	ATTGGAGGAG	GCTTTTCTCG	TCTGTCACTG	2700
AAATAATGAT	AACGAATACA	AAAGGTAGGA	TACAAGAGAG	GGCAATCAAA	CCCGAAATGA	2760
TACTGAAGAA	GATATCTGCT	TTCTTACTGA	AGGAGTGAAT	GCCGACATTA	TCAATTTTTT	2820
CTTTTTTAAT	TTTCTTTTT	GCCATATTCT	CCTCCTTTCT	AGAACAAAGC	TGAGTTTGGA	2880
TCGACTCGTC	TTGCAAGCAA	GTTTGATAGG	ATAACCAGAA	TCAAACCAAC	AACGGATTGG	2940
TAAAGACCGG	CTGCTGCAGC	CATACCGATA	TCTGCTGTCT	GAGTCAAACC	ATTAAAGACA	3000
TATACGTCCA	AAACGTTGGT	TACATTGTAA	AGCTGACCAG	CATTGTGTGG	GATTTGATAG	3060
AAGAGACCGA	AGTCTGCGCG	GAAGATATTT	CCGACTGCAA	GGATGGTCAA	TACAGTTACA	3120
AGCGGAGTCA	ACTGAGGAAT	GGTTACGTTG	CGAATACGTT	GCCACTTGCT	AGCTCCGTCC	3180
ACTGTCGCTG	CTTCGTAGTA	GGTTGGATCA	ATTCCCATGA	TCGTCGCATA	GTACATGACA	3240
CTGCTATATC	CAAAGCCTTT	CCAAATACCT	AGGAAAAGTA	GGAGATAGGG	CCAGATGCCC	3300

			868			
AGGTCAGCGT	AGAAATTGAC	TTCTTTGAGA	CCAAGACTTT	CCAATAGATG	ATTGAACACC	3360
CCTTTATCAA	TATTTAGGAA	GGCATCTGTA	AAGAAACTGA	TGATAACCCA	AGACAAGAAG	3420
TAAGGGAACA	ACATAGAAGT	TTGAAAAATC	TTCACCATTC	TCTTAGAACG	GAGCTCGCTG	3480
AGGATAATGG	CAATCCCTAC	AGATACAACT	AAACCTAGAA	AGATAAAGCC	AAGATTGTAG	3540
AGGACAGTAT	TTCGTGTGAT	AATAAAGGCG	TCTCTTGAAC	TAAATAAGAA	TCTAAAATTA	3600
TCGAGTCCGA	CCCATTTACT	ATTTATGATA	CTATCTATGA	AACCATTACT	GGTCATGTGG	3660
TAGTCTTTGA	AGGCAACCAC	GTTCCCAAAT	ACTGGAATGT	AAAAGAATAG	AATCAACCAG	3720
AGTGCCCCTG	GCAAAACCAT	CAAGAGAAAG	ATCCAGTTGT	CTCTCAATGT	TTTTGAAAAC	3780
TTTTTCATAA	TTTCCTCCCT	TTTTATTTTG	ATATCCATCT	AAAAATTCTT	TTTTAGACTT	3840
TTGATAACGA	TTACATTATT	AGTATACTCC	TATTTGCAGG	TTAGGTTAAA	CTCCTAATTA	3900
TAGAAAAAAC	TCCACAAATT	ATGTAGCAGA	TTTAAAAACTT	TATCACCACT	ATCAAACAAA	3960
TGTCCTAAAT	CAATTGTTTA	TTTTATCTCT	ATTAGCCCAG	TGATGGCGTC	ACTCTGTTAT	4020
AAGCATCCAA	CAACGGGGTA	TACTGAAAAA	TCTCCAGACT	AGGGAACTCA	GCGATAGTTC	4080
CTAATCTGGA	GATTTTTAAT	ATGTTATTAG	GCGTTTGCTT	TCAACTTAGC	AATAACCTCT	4140
TTAAGATTAT	CAATCAACTC	TGCTGCAGTA	TGCTCAGAGC	CTTTTTCATC	TGCCAAGAAC	4200
AAAACTGCTT	TTTGAAGTTC	TTTTTGAGAG	TTTTCAAGGA	CATCCTTATC	TACTGTTTCA	4260
AGGTTTGAGT	CTTTAAGAAG	TTTACTTAAT	TCCTTGGCTA	ATTTCTTGAG	TTTGATTTGC	4320
AGACTCATCT	TCTCCTGCTG	TTTCTTTGCC	CGCTGTTTGT	CCTCCATCCT	TAGTTGCTGA	4380
CTGGCTTTCC	TTAATGGACT	CTAGGGAAGC	AATGGCATCT	TTGACTGTTT	GCAAGATATC	4440
ACGTAAACCT	TGCTCTGTCA	AACTATCATC	TGCAAAAGCT	TTATTAGCCT	CTGCCAAAAC	4500
CAGACGTGCT	GAATCTGTGG	TAGGATTCGA	TACACCTGTC	AATGATCTCA	AAAGATTTTC	4560
TAAGGTTTGA	GTCTGCTTAC	TAATACTAGA	СТААААТСАА	AAAGTATTAT	ATAACAGTGA	4620
TATGAAATCA	ACTAAAGAAG	AAATCCAAAC	CATCAAAACA	CTTTTAAAAG	ACTCTCGTAC	4680
AGCTAAATAT	CATAAACGCC	TTCAAATCGT	TCTATTTTGT	CTGATGGGCA	AATCTTATAA	4740
AGAGATTATA	GAACTTTTAT	AGTAGTTTGA	AATAAGATGT	GAACATCTCT	ATCAGGAAAG	4800
TCAAATTAAT	TTATAGAAAT	ATTTTAGCAG	CCAAGGTGTA	CTGTTATAGA	TTCAATACAC	4860
PATACTTGGT	GGTTTAGCTC	G				4881

(2) INFORMATION FOR SEQ ID NO: 126:

<sup>(</sup>i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 13121 base pairs(B) TYPE: nucleic acid

869

- (C) STRANDEDNESS: double
  (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 126:

AGGATCCCCG GAAAAGGAGA	CTAAAAATGA	AGAAAAAATT	TCTAGCATTT	TTGCTAATTT	60
TATTCCCAAT TTTCTCATTA	GGTATTGCCA	AAGCAGAAAC	GATTAAGATT	GTTTCTGATA	120
CCGCCTATGC ACCTTTTGAG	TTTAAAGATT	CAGATCAAAC	TTATAAAGGA	ATTGATGTTG	180
ACATTATTAA CAAAGTCGCT	GAGATTAAAG	GCTGGAACAT	TCAGATGTCC	TATCCTGGAT	240
TTGACGCAGC AGTCAATGCG	GTTCAAGCTG	GGCAAGCCGA	CGCTATCATG	GCAGGGATGA	300
CAAAGACTAA AGAACGTGAA	AAAGTCTTCA	CCATGTCTGA	TACTTACTAT	GATACAAAAG	360
TTGTCATTGC TACTACAAAG	TCACACAAAA	TTAGCAAGTA	CGACCAATTA	ACTGGCAAAA	420
CCGTTGGTGT TAAAAACGGA	ACTGCCGCTC	AACGTTTCCT	TGAAACAATC	AAAGATAAAT	480
ACGGCTTTAC TATTAAAACA	TTTGACACTG	GTGATTTAAT	GAACAACAGC	TTGAGTGCTG	540
GTGCCATCGA TGCCATGATG	GATGACAAAC	CTGTTATCGA	ATATGCCATT	AACCAAGGTC	600
AAGACCTCCA TATTGAAATG	GATGGTGAAG	CTGTAGGAAG	TTTTGCTTTC	GGTGTGAAAA	660
AAGGAAGTAA ATACGAGCAC	CTGGTTACTG	AATTTAACCA	AGCCTTGTCT	GAAATGAAAA	720
AAGATGGTAG TCTTGATAAA	ATTATCAAGA	AATGGACTGC	TTCATCATCT	TCAGCAGTGC	780
CAACTACAAC TACTCTCGCA	GGATTAAAAG	CTATTCCTGT	TAAGGCTAAA	TATATCATTG	840
CCAGCGATTC TTCTTTTGCC	CCTTTTGTTT	TCCAAAATTC	AAGCAACCAA	TACACTGGTA	900
TTGATATGGA ATTGATTAAG	GCAATCGCTA	AAGACCAAGG	TTTTGAAATT	GAAATCACCA	960
ACCCTGGTTT TGATGCTGCT	ATCAGTGCTG	TCCAAGCTGG	TCAAGCCGAT	GGTATCATCG	1020
CTGGTATGTC TGTCACAGAT	GCTCGTAAGG	CAACTTTTGA	CTTCTCAGAA	TCATACTACA	1080
CTGCTAATAC CATTCTTGGT	GTCAAAGAAT	CAAGCAATAT	TGCTTCTTAT	GAAGATCTAA	1140
AAGGAAAGAC AGTCGGTGTT	AAAAACGGAA	CTGCTTCTCA	AACCTTCCTA	ACAGAAAATC	1200
AAAGCAAATA CGGCTACAAA	ATCAAAACCT	TTGCTGATGG	TTCTTCAATG	TATGACAGTT	1260
TAAACACTGG TGCCATTGAT	GCCGTTATGG	ATGATGAACC	TGTTCTCAAA	TATTCTATCA	1320
GCCAAGGTCA AAAATTGAAA	ACTCCAATCT	CTGGAACTCC	AATCGGTGAA	ACAGCCTTTG	1380
CCGTTAAAAA AGGAGCAAAT	CCAGAACTGA	TTGAAATGTT	CAACAACGGA	CTTGCAAACC	1440
TTAAAGCAAA CGGTGAATTC	CAAAAGATTC	TTGACAAATA	CCTAGCTAGC	GAATCTTCAA	1500
CTGCTTCAAC AAGTACTGTT	GACGAAACAA	CGCTCTGGGG	CTTGCTTCAA	AACAACTACA	1560

870 AACAACTCCT TAGCGGTCTT GGTATCACTC TTGCTCTAGC TCTTATCTCA TTTGCTATTG 1620 CCATTGTCAT CGGAATTATC TTCGGTATGT TTAGCGTTAG CCCATACAAA TCTCTTCGCG 1680 TCATCTCTGA GATTTTCGTT GACGTTATTC GTGGTATTCC ATTGATGATT CTTGCAGCCT 1740 TCATCTTCTG GGGAATTCCA AACTTCATCG AGTCTATCAC AGGCCAACAA AGCCCAATTA 1800 ACGACTTTGT AGCTGGAACC ATTGCCCTCT CACTCAATGC GGCTGCTTAT ATCGCTGAAA 1860 TCGTTCGTGG TGGTATTCAG GCCGTTCCAG TTGGCCAAAT GGAAGCCAGC CGAAGCTTGG 1920 GTATCTCTTA TGGAAAAACC ATGCGTAAGA TTATCTTGCC ACAAGCAACT AAATTGATGT 1980 TGCCAAACTT TGTCAACCAA TTCGTTATCG CTCTTAAAGA TACAACTATC GTATCTGCTA 2040 TCGGTTTGGT TGAACTCTTC CAAACTGGTA AGATTATCAT TGCTCGTAAC TACCAAAGTT 2100 TCAAGATGTA TGCAATCCTT GCTATCTTCT ATCTTGTAAT TATCACACTT TTGACTAGAC 2160 TAGCGAAACG CTTAGAAAAG AGGATTCGTT AATGGCAAAA TTAAAAATTG ATGTAAATGA 2220 TTTACACAAG CACTATGGAA AAAATGAAGT CCTAAAAGGA ATTACGACTA AGTTCTATGA 2280 AGGAGATGTT GTTTGTATCA TCGGTCCTTC AGGTTCTGGT AAGTCAACTT TCCTCCGTAG 2340 CCTCAATCTT TTAGAAGAAG TCACTAGCGG TCACATCACT GTGAACGGCT ATGATTTAAC 2400 TGAAAAAACA ACCAATGTTG ACCACGTCCG TGAAAATATC GGCATGGTAT TCCAACACTT 2460 CAACCTCTTC CCTCATATGT CTGTATTGGA CAACATCACC TTTGCTCCTA TTGAGCACAA 2520 GTTGATGACT AAGGAAGAAG CTGAGGAATT GGGAATGGAG TTGCTTGAAA AGGTTGGACT 2580 AGCAGATAAA GCTAATGCCA ATCCAGATAG CCTATCAGGT GGTCAAAAAC AACGTGTGGC 2640 CATCGCTCGT GGCCTAGCAA TGAATCCAGA CATCATGCTC TTCGATGAAC CAACTTCTGC 2700 CCTTGACCCT GAGATGGTTG GAGACGTACT TAACGTTATG AAGGAATTGG CTGAGCAAGG 2760 CATGACCATG ATTATCGTAA CCCATGAGAT GGGATTTGCT CGTCAGGTTG CCAACCGCGT 2820 TATCTTTACT GCAGATGGCG AGTTCCTTGA AGACGGAACA CCTGACCAAA TCTTTGATAA 2880 CCCACACAC CCTCGTCTGA AAGAGTTCTT AGATAAGGTC TTAAACGTCT AAACTCAAAC 2940 TGTAAGGATT TCCTTGCAGT TTTTCTACCT CGTATTGGAA TTTTTGATTT TTCGGAAAAT 3000 TATGTTAGAA TTAAGTTTAT GAAATGAGGT TTCCTCATAC CTAGCAAGAC TAGGAATAAA 3060 AATAGAAATT AGGTAGCTAG ATGTCATCTA AGGTTATTGT TACAATTTTC GGTGCGAGTG 3120 GAGACCTGGC TAAACGCAAG CTCTACCCTT CCCTTTTTAG ACTATATCAA TCCGGCAATC 3180 TTTCCAAGCA CTTTGCCGTT ATTGGAACTG CCCGTAGACC TTGGAGTAAG GAATATTTTG 3240 AATCTGTAGT TGTCGAGTCC ATCCTTGATT TGGCAGATAG TACCGAGCAA GCCCAAGAAT 3300 TTGCTAGCCA CTTCTACTAT CAAAGCCATG ATGTCAATGA TTCGGAACAT TATATTGCTT 3360

TGCGTCAATT	ACAAGCTGAG	CTTAATGAAA	AATACCAAGC	TGAACACAAT	AAGCTCTTCT	3420
TCTTGTCTAT	GGCACCTCAG	TTCTTTGGAA	CCATTGCCAA	ACACCTCAAA	TCTGAAAACA	3480
TTGTCGATGG	CAAAGGTTTT	GAGCGCTTGA	TCGTTGAAAA	ACCATTTGGT	ACAGATTACG	3540
CAACTGCAAG	CAAGTTGAAT	GACGAACTCC	TAGCAACATT	TGACGAAGAA	CAAATTTTCC	3600
GTATCGACCA	TTATCTTGGT	AAGGAAATGA	TCCAAAGCAT	CTTTGCAGTT	CGCTTTGCAA	3660
ACTTGATTTT	TGAAAACGTT	TGGAACAAGG	ATTTTATCGA	CAATGTTCAA	ATTACCTTTG	3720
CGGAGCGCTT	GGGTGTAGAA	GAACGTGGTG	GCTACTATGA	CCAATCCGGT	GCCCTCCGTG	3780
ACATGGTCCA	AAACCACACT	CTACAACTTC	TTTCGCTCCT	CGCCATGGAC	AAACCAGCAA	3840
GCTTCACAAA	AGACGAGATT	CGTGCTGAAA	AGATTAAGGT	CTTTAAAAAC	CTCTATCATC	3900
CAACTGATGA	AGAACTCAAA	GAACACTTTA	TCCGTGGGCA	ATACCGCTCT	GGTAAGATTG	3960
ATGGCATGAA	ATACATCTCT	TATCGTAGCG	AGCCAAATGT	GAATCCAGAA	TCAACAACTG	4020
AAACCTTTAC	ATCTGGTGCC	TTCTTTGTAG	ACAGCGATCG	ATTCCGTGGT	GTTCCTTTCT	4080
TTTTCCGTAC	AGGTAAACGA	CTGACTGAAA	AAGGAACTCA	TGTCAACATC	GTCTTTAAAC	4140
AAATGGATTC	TATCTTTGGA	GAACCACTTG	CTCCAAATAT	TTTGACCATC	TATATTCAAC	4200
CAACAGAAGG	CTTCTCTCTT	AGCCTAAATG	GGAAGCAAGT	AGGAGAAGAA	TTTAACTTGG	4260
CTCCTAACTC	ACTTGATTAC	CGTACAGATG	CGACTGCAAC	TGGTGCTTCT	CCAGAACCAT	4320
ACGAAAAATT	GATTTATGAT	GTCCTAAATA	ACAACTCAAC	TAACTTTAGC	CACTGGGATG	4380
AAGTTTGTGC	GTCATGGAAG	TTGATTGACC	GTATTGAAAA	GCTCTGGGCT	GAAAATGGTG	4440
CCCCACTTCA	TGACTATAAA	GCTGGAAGCA	TGGGACCTCA	AGCCAGCTTT	GACCTACTTG	4500
AAAAATTCGG	TGCCAAATGG	ACTTGGCAAC	CAGATATCAC	CTATCGTCAA	GATGGTCGCT	4560
TAGAATAAAA	AAATTTCCTG	CAAGTTTATG	CcTTGCAGGA	TTTTTGCTTC	TGATTAGATT	4620
AAACCTTCCA	AGAGACCTTT	CATAAAGTTT	TCTGAGTTAA	ACTCTCCAAT	ATCATCGATT	4680
TTTTCACCAA	AACCAATCAA	TTTTACAGGA	ATATTGAGTT	CTTCACGAAT	GGCTAGAACC	4740
ACACCTCCTC	GAGCAGTTCC	ATCAATCTTA	GTCAAAACAA	TTCCCGTTAA	AGGTGTGATT	4800
TTCGAAAATT	CTTTGGCCTG	TACTAGGGCA	TTTTGACCTG	TTGATGCATC	AAGTGCCAAG	4860
AAGGTTTCAT	GTGGTGCTTC	TGGCACAACA	CGTTTGATAA	TACGACCAAT	CTTTTCCAAC	4920
TCAGCCATAA	GGTTATCCTT	ATTTTGCAGA	CGACCAGCAG	TATCAATCAT	GAGAATATCG	4980
ATACCTTCAG	TCACGGCACG	TTCCATACCA	TCAAAGACCA	CGCTGGCTGG	ATCAGCTTTT	5040
TCAGGTCCAG	TTACTACTGG	AACATCTACT	CGTCGGCCCC	ATTCAGCTAG	CTGAGCTACT	5100

872 GCACCCGCAC GGAAGGTATC TGCTGCAACC AGCATGACCT TCTTACCAGC TTGTTTGTAG 5160 CGGTGGGCTA GTTTTCCGAT AGAAGTTGTT TTCCCAACAC CATTCACACC AACAAAGAGC 5220 ATAACTGTCA AGTTATCTTG GAAGTGGATG CTTTCATCGT AGCTACCATC CTTTTCATAA 5280 AGCTCAACCA ATTTCTCAAT GATGACACGA CGAAGTACAT CAGGTTTCTT GGCATTTTCA 5340 AGCTTGGCTT CGTAACGTAG TTCCTCCGTT AAGTTAGAAG CGACTTGGAC ACCAACATCA 5400 CTCATAATCA GCAGTTCTTC CAGTTCCTCG AAAAATTCTT CGTCAACAGA GCGGAAGTTA 5460 GCAAAGAAG CATTCAAGCG GGCACCGAAA CCTGTGCGAG TTTTCTTAAG ACTGCGGTCA 5520 TATTTTCCT GAACAGTTTC TTCTGTTTGA GGAGCTTCTG GTTCAAGCAC TTCAGAATTA 5580 TTTTCTTCTA CAGTTCCTTC GTGCTCAAGC TTCTCTTCCT CTGGTAATTC TTCTGAGTTT 5640 GGTAATTCTT CTATTTCTTC TTGAGAAACC CCTACAGCTG GCTCTGAATC CTGACTTTCT 5700 TCAACTGTGT CTTGGATTTC CTCTTCTTGG AACACAGCTT GTTCAACAAT TTCAACCTCT 5760 GCTTCTTCCT GAGAAACTTC CTCAACTTCT GTGAAGGTAG GATCAACATC TTCAGACAAA 5820 TCAAGATTTT CCAGAGCTTC TTTTACAACT TCTTCGATTT TAGGTTCTTC TTTTTTTCCG 5880 AATAGACGGT CAAACAATCC CATATCTTAG TTCTCCTTTA GCACATATTC TTCGATAGCC 5940 CAGGCGACAG CTTCCTCATC GTTGGTCATC GGCGTCACTA CATTTGCGGC TGCCTTTACT 6000 TCAGGAACAG CGTTTTGCAT AGCAACACCA AGACCTGCCC ATTCAATCAT AGAGAGGTCA 6060 TTGGCCTCGT CACCACAGC CATCACTTGA CTTTGGTCGA TTCCAAGATG GCTGATTAGT 6120 TTTGCCAAAC CTGTTGCTTT ATGAACATTC TTTGGTGACC ATTCTAGCAA CATTTCACGT 6180 GATTTAAAGA TTTCATATTG GTCAAACAAT TCTGGAGAAA TCTTCTGAAT GGCTGCATCC 6240 AAGGGTTCTT GAGCAAAGGC AGTCACGCAT TTGTTGTAGG TCATTTGACT AGATAAGTCT 6300 TCAAAGTCCA CTGGAACAAA GGTCAAAGCT GGATTGAATT TGGCATAAAG ACTTTCTTGG 6360 TCCGATTGGA TTTGATAAAC TGTTCCTTCT GAGATGGCAT CAAGAGGCAG TGATAATTTC 6420 TCTGTTTCTT CATACAAACG TGCCACATCA TCATATGAAA AGACTGTTTT ATCAAGGATT 6480 TCTCCTGTAT TTTTCTGAAC TAATCCACCA TTAAAAGTAA TGGTATACTC ATCTTCCTGA 6540 CCGTCAGTCC CTAACTCATG GAGAAAGAAA TCCATGGCTT TTAAGGGACG ACCAGTTGTC 6600 AATACGACCT TGATACCACG ATCACGCGCA gCTTGCAAGG TTTCCTTGGT ACGATCCGTC 6660 AGCCTTTTAT CAGTAGTCAG CAAGGTCCCG TCCAAGTCCA ATGCAATCAA TTTTATATCT 6720 GCCATTATAA GCCCTCCATA TAAGCTATAA CCGACCGTTC CTTATGGTGA CCAATCACAG 6780 TCTTTGCTAA TTCTAAAATT TCAGGTCGTG CATTTTCAGG AGCTACAGGA TGTCCCACAA 6840 CCTGCATCAT ATGTAAGTCA TTAAGATTGT CTCCAAAAGC CATGACCTGA TCCATTGTGA 6900

TACCAAGTTT TTTAACTAAT	TCAACAATGG	CCACTCCCTT	ATCGACATAG	TCCAGAACAA	6960
TATCAATGGA TTCAAAGCCA	GTTGTCATGG	CCTTAACACC	AGGAACGTTT	TCGTTTACCC	7020
AAGCCTCCCC ATCTTCCAGC	GTTTCTTCTG	TGAAGTTGGT	TGTAAATTTG	AAAATGTCAT	7080
CTGTGATATC TTCCAAACTC	GCTACTTTTT	GGATATTTTC	ATTATAGTGC	TGACTCACTT	7140
TCAAATAGGT CTCATCAACC	GTATCTAGAA	CATATGAACC	CTTCTTACCC	GTCAAGAGCA	7200
GTTTATTGAT ATCTACATAA	GGTGAAGTTT	TCAGCTTTTC	AAAAGTTGCC	AGATAAAAGT	7260
CACGAGACAT AGTCGCTTCA	TACAAGTCCT	GACCTTGATA	CTCTACCAAA	CTGCCATTTT	7320
CCGCGATGAA AATAATGTCA	TCACGAACAC	CAGCAAATAA	TTTTTCTAGA	GACAGAAATC	7380
CCCGACCCGA AGCTACCGCA	AAGTAAATCC	CTTTTTCCTT	GTAGGAAACC	AAGAGAGACT	7440
TGAGACGATC CATATCAAAG	CGTCCATTCC	CATCTAGGAA	GGTTCCGTCC	ATATCCGTTG	7500
CTACTAGTTT AATTGTCATC	CTTCAATACT	TTCTAAATCT	TTTAACTTAA	CTGAAACAAT	7560
CTTTGAAACA CCCGATTCTT	GCATGGTCAC	TCCATAGATG	GAATCAGCCG	CTGCCATGGT	7620
TCCCTTACGG TGGGTTACGA	CGATGAACTG	GCTGTCCTTG	TCAAAGCGGT	TGAGGTAATC	7680
CCCAAAACGT TTAACATTGG	CTTCATCCAG	CGCAGCTTCC	ACCTCATCCA	AGATAACAAA	7740
TGGAATAGTC TTGACACGAA	TAATGGAGAA	GAGCAAGGCA	AGAGCCGATA	GGGCTTTTTC	7800
ACCACCACTC ATGAGATTAA	GAGACTGGAT	TTTCTTGCCT	GGTGGTTGGA	CAGAAATTTC	7860
AACCCCAGCT GTCAGCAAGT	CTCCTTCAGT	CAAAATGAGG	TCAGCCTGAC	CTCCACCAAA	7920
CATCTGCTTG AAGGTCACTT	TAAAGGACTC	ACGAATGACC	TCAAAGGTTG	ATTTAAAGCG	7980
TTCCTTGACC TCATCATTCA	TCTCTGTAAT	GGTCTCAAGG	AGCAGGTTTT	TCGCAGACAA	8040
AATATCATCA CGTTGGCTAT	TTAGGAAATC	CAGACGGTTG	TGAACTTCTT	CGTACTGTTC	8100
AATAGCGTCT AAATTGACAG	GACCCAGTGA	GCGTATAGCC	TTCTCTAAAT	CCTTAACTTC	8160
TTGCTCTGCC AGATTGAGAT	TTTCCAACTC	ATGCGCCTTT	TCTAAAGCTT	CTGTGTAGCT	8220
GATCTGGTAC TGGTCTGTTA	ATTGACTTTG	TAGATGGCGC	AAGCGCTCGC	TAACCTTTTC	8280
TTTCTTGGCT TCAGCACGAG	TTTGCTTGCG	AATCCACTCT	TCATTCTGCT	GGCGAGCCTG	8340
ATCCAAATGA CTAGCAATAT	CATCCAGTTG	ACCCTCAATA	TCATCCAACT	CAAACTGCTT	8400
GCGAATCAAA CCTTGTTGGA	GATTTGTTTT	TTGAGTTTTG	GATTCTTCCG	CCTGTTGACT	8460
GAGCAATTCT GTATCAACCT	TCTCAAGATT	ATCAATCTTT	TCTTGAAGAA	GGCGCTGGAT	8520
TTCCTCTTGT TCAAAATCAA	GATTGTCCAA	TTCCTTGCCT	AAGCGTTCAA	TATCAGCAAC	8580
TTCATAACGT TTTTGCCCTT	GCAGTTCTGT	CTTAAGCAAA	CGAGCTTGCG	CTAGCTCTTC	8640

CTGCAAGTTT	TGATAGCGTT	CTTGGATGGC	874 ATTTTTGTTA	GACTTAATCT	CTTCAATCTC	8700
AGCTTCCAGA	TTTTGCTTGT	CACTGGAGAT	TGCAGCAAGA	CGCTCTTGGC	AGTTTTCCTT	8760
ATCCGCTTGC	CAATCTCCCT	CGGAAAGACG	ATCTATTTCC	TCTTCTTGGA	GTTTCCAAAG	8820
AGTTTCCAGT	TCTTCAACTT	GCTGACTAGT	TTGCTGATAA	GCGAGGAACA	AGCCTTGCTC	8880
CTGAATACGT	GCCTGCTCTC	CTTGAGATTT	AATAGCTTCT	AATGACTCGG	TCAATCTGGC	8940
CATCTCATCT	TGCAAGGTCT	TCAAAGTCGC	CTCTTCTGAA	CCCAAGCTTG	CTTCTTCTTC	9000
AGCAATTTCT	TTTTGTAATT	GCTCCAGTTC	TGGCTTGATA	AAAATGCTGT	TATTCTGGCG	9060
ATTGGCACCA	CCTGCATAAG	AACCACCTGT	GCGCAACTCT	GTCCCATCCA	ATGTCACCAT	9120
ACGAACCTGA	TAACGAACTT	GGCGAGCTGC	TGCACGCGCA	TGTTCTACGG	TATCAAAGAT	9180
AGCCGTCGTA	GCTAGCAAGT	TCTTGAAAAT	GGCTTCCAGT	CTAGTATCAA	AAGTCACCAA	9240
CTCATCTGCC	ATCCCAAGGA	AACCTGGGCT	TACAGCGATA	GCATCTTGGT	TCTGACTAGA	9300
AATCGTACGC	GCCTTGATAG	TGGTCAAAGG	AAGAAAGGTT	GCACGACCGG	CTCTGTTCCG	9360
TTTAAGGAAG	TCAATAGCCT	TGGTTGCCGA	CTCTTCATCT	TCTACGATGA	TATGCTGGCT	9420
ACTTGCCCCT	AAGGCAATCT	CTAGGGCAGT	TTGATAATAA	ACATCAAAGG	TCAGATGCTC	9480
ACTGACTGCA	CCAATAATCC	CACCTAGGCG	ATCTTTTTCT	TGGAGAACAC	TCTTAACACC	9540
TGCATAAAAG	TTACTATGAT	TTCTCAGGAT	ATTTTCCAAA	CTTTGAGCTC	TGGCCTGCTT	9600
GTTTTTGAGA	TTATCCAGAC	GGTCAAAGAG	TTGGCTTTGT	TGAGCTTGAT	AGGAAGTTTT	9660
CTGCTCCTCT	TGCTCCTTGG	CAATAGCTTG	GTAGTCAGCC	AATAATTTCT	GAACCTGCTC	9720
CTTGGCAGTT	TCAAGCTCTT	CCTTTTGCTG	ACTAGCCTTC	TCTTTAGCTA	TAGCTAATTG	9780
CTCTTTCAGC	TTTTCTAGTT	GATCTGCTTG	TTTTTGAGAA	AGCTGACGAC	TATTTTCCAA	9840
CTCATTCTCA	ATACGGGTCA	ACTGGTTTGA	GACATCCGCT	TCTTCTTGTA	AAAGAGCTAC	9900
AAAGCGTTCA	CGTAAGAGCT	CAATCATCTG	ATCAGGATCG	TCTGAGAAAG	CCAGCAATTC	9960
AGCTTCTAAA	CGATTGAGTT	TTTGATTATT	TTGGACTAGA	TTTCCCTCTA	ACAGAGCTAA	10020
AGAGCTTTCT	TTATCAGACT	TTTCTTTGCT	GAGTGAATTT	CTCTTATCCT	CCAAAGCAGC	10080
CAAACGGGCT	TGTGCCTCCT	GTTGATTCAA	GGCCACTTGC	TCGGACTCCA	GTTTCGATAG	10140
GGCTAATTTT	CTTTCTAAAT	CACTAATCAG	ACTAGTCAAG	TCCATCAAAC	TGCCTTGGTC	10200
TTTGGCCATT	TCAGCCTGTA	AATCTTGGCG	TTGCTTTTTA	AGAGTTTGAT	TTTCTTCTTC	10260
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TTCTGTCGAC	TCTAGTTCAG	CCTTATTTTC	CTTGATTTGA	GCAACCAGAA	САТСТАААТА	10380
AATAGCCTTA	CGTTGTCCTT	CCAAGTCTAA	AAACTTACGG	GCATTCTCAG	CTTGCTTCTC	10440

AAGAGGCTTG	ATTTGATTAT	CCAACTCGTA	GATAATGTCC	TCTAAGCGGT	CCAGATTATC	10500
CTGAGTTTGC	TGCAGTTTAC	TCTCGGTTTC	TTTTCTGCGA	GTCTTGTATT	TTAAAACTCC	10560
AGCAGCTTCT	TCAAAAATAG	CTCGTCGTTC	CTCAGGCTTG	GAATTAAAAA	TCTCCTCAAC	10620
CTTCCCTTGG	GAAATAATAG	AGAAGGAATC	TCGTCCCAAT	CCAGTATCCA	AGAAGAGGTC	10680
ATGAATATCA	CGCAGACGGA	CTTTCTTGCC	GTCAATCTTG	TATTCGCTAT	CTCCACTACG	10740
ATAGACATGG	CGTTCCACCC	TGATTTCTTG	ACCTGCATCC	TTGATAAATC	CGTCATGATT	10800
ATCCAGAGTC	ACAACTACAG	AAGCATAATT	GAGCGGTTTG	CGACTTTCGG	TTCCAGCAAA	10860
GATGATATCC	GGCATCTTGC	CCCCACGGAG	ACTCTTGACA	CTAGACTCCC	CCAAAGCCCA	10920
ACGCAGACTT	TCTGTAATAT	TGGACTTTCC	AGATCCATTG	GGTCCAACAA	CTGCCGTCAC	10980
ACCTTGGTCA	AAAACGACCT	TGGTCTTATC	AGCAAAAGAC	TTGAACCCCT	GAATTTCGAT	11040
TTCCTTTAAA	TACATGAATC	CAGCCCCTTC	TCAACGCCAT	TTTTGGCAGC	TTCCTGCTCT	11100
GCTAATTTCT	TAGAACGACC	TTGGCCTTGA	CCGATGCTCT	TACCTTCAAC	AAGAACTTCT	11160
ACATCAAAAA	CCTTATCGTG	AGCAGGCCCT	GTTTCAGAAA	TCACCTGATA	ACGAATAGCC	11220
ACATCACCAT	TGACCTGAAG	CAACTCTTGG	AGATGGGTTT	TATAGTCTGT	AATCATCTCA	11280
AACTCGCCTG	CTTCAACCTT	AGGAATCATG	ACTTGATAGA	TAAATTCCTT	GACCTTGGCC	11340
ACATCCTTAT	CCAAAAGAAG	GGCACCAAGA	AAGGCTTCAA	AGGCATCACC	AAGAATGGTG	11400
TCACGATTGC	GACCACCTGA	TTTTTCTTCC	CCTTTACCCA	ACTTGATAAA	CTGGTCAAAC	11460
TGGCAATCAC	GCGCAAAACC	AGCTAAACTC	TCCTCACGGA	CAATCATAGC	ACGGAGTTTT	11520
GATAGGTCAC	CTTCAGGCTT	TTTAGGATAT	TTTTTATATA	GATATTCTGA	AATCAATAAC	11580
TGTAGAACAG	CGTCTCCTAA	AAATTCCAAG	CGTTCATTGT	GTGAAATTTT	TAAGAGGCGG	11640
TGCTCATTGG	CATAACTCGT	ATGAGTAAAG	GCAGTTTCCA	GTAACTTTTT	GTCTGCAAAT	11700
TCGATTGCAA	AATGATTCTT	TAGTACAGTT	TGTAATTCTT	TCATACCAAC	СТСТТТСТАА	11760
CTGATAATAG	TCCTTTTTAT	ТАТАТСАААА	AAAGCCCCCT.	GAGTCACTCT	AAAACGGGAC	11820
TGGAAAGCAT	TTGGGAATTC	TTTAGACAGA	GATTCTCAGT	TTTAGCGGCA	AATTTGGGTC	11880
AGGATAAAGA	AAAAAGCCCT	ATTAAAGGCT	TTTTAGGATG	TTTACATCCA	CCCTGAGGGA	11940
ATCGAACCCC	CATCTCAAGA	ACCGGAATCT	TACGTGATAT	CCATTACACT	AAGGGTGGAA	12000
ACTTGTTTTA	TTATAACAGA	AATTTGCTCT	AATAACAAGT	TTTTTGGTCA	AAGACCCCGT	12060
CTTAGTGGGA	AGCATCCCCA	TTCCAGATGG	AGTTTTTCAC	GATCACATAA	TCAACGTGTT	12120
TAAGGTCAGC	AACCTGACGT	CCACCTGCAT	AAGAAATAGC	ACTTTGAAGG	TCTTGTTCCA	12180

876 TCTCAGTTAA AGTGTCTTGC AGATGACCTT TAGCAGGAAG CAAGATACGT TTGCCTTCCA 12240 CATTTTTGTA AGCACCTTTT TGATATTGTG AGGCTGAACC ATAATATTCT TTGAACTGTT 12300 CACCATCGAC TTCAATCGTT TTCCCTGGAC TTTCAATGTG TCCTGCAAAG AGGGAACCAA 12360 TCATGATCAT GCTAGCACCG AAGCGGATAG ACTTAGCAAT ATCACCGTGA GTACGAATTC 12420 CTCCATCAGC GATAATCGGT TTACGCGCAG CCTTGGCACA CCAGCGTAGA GCAGCCAACT 12480 GCCAACCACC TGTACCAAAA CCAGTCTTAA CCTTGGTGAT ACAAACCTTA CCAGGACCGA 12540 TTCCGACCTT AGTAGCATCC GCACCAGCAT TTTCCAATTC ACGCACAGCT TCTGGTGTTC 12600 CCACATTCC AGCAATGACA AAGGTATCTG GCAATTCTTT CTTGATGTGT TGAATCATAG 12660 AAATCACGCT ATCCGCATGA CCATGAGCAA TATCAATAGT GATATACTCA GGAGTATCAG 12720 CCTTGAGCTG GCTAACAAAA TCATACTCAT AATCCTTAAC ACCGACAGAG ATAGAAGCAA 12780 TGAGCCCTTG ATTGTGCATT CGTTTAATAA AAGGAATGCG TCCTGCCTCA TCAAAACGGT 12840 GCATAATGTA GAAGTAACCA CCTTTAGCCA GTTGCTCTGC TACATTTTCA TCCAAAATCG 12900 TCTGCATATT CGCTGGCACA ACAGGTAGTT TAAAGGTGTG ATTTCCTAAA GTGACACTTG 12960 TATCCGCTTC TGCACGGCTT TTAATGACAC ATTTATTTGG AATCAATTGA ATATCTTCGT 13020 AATCAAAAAT TGGAAATTCA TTTAACATAT CGATGTCTCG TTTCTTTTGT AATGACCTAC 13080 CTATGCTCTT GCATCACTAC GCCTTTTCCG ACGTTTCCTG G 13121

#### (2) INFORMATION FOR SEQ ID NO: 127:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 9578 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 127:

CCGAATGCAA	TGTTTACGGT	TGAACTTGAA	AATGGACATC	AGATTTTAGC	AACAGTTTCT	60
GGTAAAATTC	GTAAAAACTA	TATTCGTATT	TTAGCGGGAG	ATCGTGTTAC	TGTCGAAATG	120
AGTCCATATG	ACTTGACACG	TGGACGTATC	ACTTACCGCT	ТТАААТААТС	GAAAAACTTG	180
GAGGGATAAG	AAATGAAAGT	AAGACCATCG	GTCAAACCAA	TTTGCGAATA	CTGTAAAGTT	240
ATTCGTCGTA	ATGGTCGTGT	TATGGTAATT	TGCCCAGCAA	ATCCAAAACA	CAAACAACGT	300
CAAGGATAAG	ATAGAAAGGA	GAAAACATGG	CTCGTATTGC	TGGAGTTGAT	ATTCCAAATG	360
ACAAACGCGT	AGTAATCTCA	TTGACTTATG	TTTATGGTAT	CGGACTTGCA	ACATCTAAGA	420
AAATTTTGGC	TGCTGCTGGA	ATCTCAGAAG	ATGTTCGTGT	ACGTGATCTT	ACATCAGATC	480

AAGAAGATGC	TATCCGTCGT	GAAGTGGATG	CAATCAAAGT	TGAAGGTGAC	CTTCGTCGTG	540
AAGTAAACTT	GAACATCAAA	CGTTTGATGG	AAATCGGTTC	ATACCGTGGT	ATCCGTCACC	600
GTCGTGGACT	TCCTGTCCGT	GGACAAAACA	СТАААААСАА	CGCCCGCACT	CGTAAAGGTA	660
AAGCTGTTGC	GATTGCTGGT	AAGAAAAAAT	AATATAGGAG	GTAAAAGTCT	TGGCTAAACC	720
AACACGTAAA	CGTCGTGTGA	AAAAGAATAT	CGAATCTGGT	ATTGCTCATA	TTCACGCTAC	780
ATTTAATAAC	ACTATTGTTA	TGATTACTGA	TGTGCATGGT	AATGCAATTG	CTTGGTCATC	840
AGCTGGTGCT	CTTGGTTTCA	AAGGTTCTCG	ТАААТСТАСА	CCATTCGCTG	CTCAAATGGC	900
TTCTGAAGCT	GCTGCTAAAT	CTGCACAAGA	ACACGGTCTT	AAATCAGTTG	AAGTTACTGT	960
AAAAGGTCCA	GGTTCTGGTC	GTGAGTCAGC	TATTCGTGCG	CTTGCTGCCG	CTGGTCTTGA	1020
AGTAACAGCA	ATTCGTGATG	TGACTCCAGT	GCCACACAAT	GGTGCTCGTC	CTCCAAAACG	1080
TCGCCGTGTA	TAATCATCGC	ATTACACTGC	TTTTCGTTTA	AGAGGGAGTA	ACTAAATGAT	1140
CGAGTTTGAA	AAACCAAATA	TAACAAAAAT	TGATGAAAAT	AAAGATTATG	GCAAGTTTGT	1200
AATCGAACCA	CTTGAACGTG	GCTACGGTAC	AACTCTTGGT	AACTCTCTTC	GTCGTGTACT	1260
TCTAGCTTCT	CTACCAGGAG	CAGCTGTGAC	ATCTATCAAC	ATTGATGGTG	TGTTACATGA	1320
GTTTGACACA	GTTCCAGGTG	TTCGTGAAGA	CGTGATGCAA	ATCATTCTGA	ACATTAAAGG	1380
AATTGCAGTG	AAATCGTACG	TTGAAGACGA	AAAAATCATC	GAACTGGATG	TTGAAGGTCC	1440
TGCTGAAGTA	ACAGCTGGTG	ACATTTTGAC	AGATAGCGAT	ATTGAAATTG	TAAATCCAGA	1500
TCATTATCTC	TTTACAATCG	GTGAAGGTTC	TTCTCTAAAA	GCGACTATGA	CTGTTAACAG	1560
TGGTCGTGGA	TATGTACCTG	CTGATGAAAA	TAAAAAGGAT	AATGCACCAG	TTGGAACACT	1620
TGCTGTAGAT	TCTATTTATA	CACCAGTTAC	AAAAGTCAAC	TATCAAGTGG	AACCTGCTCG	1680
TGTAGGTAGC	AATGATGGTT	TCGACAAATT	AACCCTTGAA	ATCTTGACAA	ATGGAACAAT	1740
TATTCCAGAA	GATGCTTTAG	GGCTTTCAGC	ACGTATTTTG	ACAGAACATC	TTGATTTGTT	1800
TACAAATCTT	ACTGAGATTG	CTAAGTCAAC	TGAAGTGATG	AAAGAAGCTG	ATACTGAATC	1860
TGACGACCGT	ATTTTAGATC	GTACGATTGA	GGAACTGGAC	TTGTCTGTGC	GTTCATACAA	1920
CTGTTTAAAA	CGTGCCGGTA	TCAATACTGT	GCATGATTTG	ACAGAAAAAT	CTGAAGCAGA	1980
GATGATGAAA	GTACGAAATC	TTGGACGCAA	GAGTTTGGAA	GAAGTGAAAC	TCAAACTCAT	2040
TGATTTGGGT	CTTGGATTAA	AAGATAAATA	AAGGAGGAAT	ACATGGCTTA	CCGTAAACTA	2100
GGACGCACTA	GCTCACAACG	TAAAGCAATG	CTTCGCGATT	TGACAACTGA	CCTTTTGATC	2160
AACGAATCAA	TCGTGACAAC	TGAAGCTCGT	GCTAAAGAAA	TCCGTAAAAC	TGTTGAAAAA	2220

878 ATGATTACTC TAGGTAAACG TGGTGATTTG CATGCACGTC GTCAAGCAGC TGCTTTCGTA 2280 CGTAATGAAA TCGCATCTGA AAACTATGAT GAAGCAACTG ATAAGTACAC TTCTACTACA 2340 GCACTTCAAA AATTGTTCTC AGAAATCGCA CCTCGTTATG CTGAACGTAA CGGTGGATAC 2400 ACTCGTATCC TTAAAACTGA ATCACGTCGT GGTGATGCAG CGCCAATGGC GATCATCGAA 2460 TTAGTATAAA ATCATCAATT TTGTTGAGTG TTATGATGAT GGAGTCTTGT GCTCTTAGTC 2520 TAGCTCTGGT CTACCGCTAG GATTTCGGTC CTAGCGGGAA CACTCATCAT AAGTTGGGAT 2580 AGTAGACGCT TGTTTACGAA ATTGTTTTTT TCTTAAGAAC AACTTCGTAA GCAGGCGTTT 2640 TTGAGTATTT TCGTTAGAAT TATGCTATAC TATTTGAAAA GAATCCTGTT TAATGTTAAG 2700 GTTTCTTATT TTAAGAAGAA TTGGAGTTTA CTTATGAAAG CCATTATAAC TGTTGTTGGT 2760 AAAGATAAAT CTGGAATTGT TGCAGGTGTT TCTGGTAAAA TTGCAGAATT AGGATTGAAT 2820 ATTGACGATA TCTCTCAAAC TGTCTTGGAT GAATATTTTA CGATGATGGC TGTTGTATCT 2880 AGTGATGAAA AGCAAGATTT TACCTATCTT CGTAATGAAT TTGAAGCTTT TGGGCAAACT 2940 TTGAATGTAA AAATCAATAT TCAGAGTGCA GCGATTTTCG AAGCTATGTA TAATATCTAG 3000 GAGGTCATCA TGGATATTAG ACAAGTTACT GAAACCATCG CCATGATTGA GGAGCAAAAC 3060 TTCGATATTA GAACCATTAC CATGGGGATT TCTCTTTTGG ACTGTATCGA TCCAGATATC 3120 AATCGTGCTG CGGAGAAAAT CTATCAAAAA ATTACGACAA AGGCGGCTAA TTTAGTAGCT 3180 GTTGGTGATG AAATTGCGGC TGAGTTGGGA ATTCCTATCG TTAATAAGCG TGTATCGGTG 3240 ACACCTATTT CTCTGATTGG GGCAGCGACA GATGCGACGG ACTACGTGGT TCTGGCAAAA 3300 GCGCTTGATA AGGCTGCGAA AGAGATTGGT GTGGACTTTA TTGGTGGTTT TTCTGCCTTA 3360 3420 GCTGAGACGG ATAAGGTCTG CTCGTCAGTC AATATCGGCT CAACCAAGTC TGGTATTAAT 3480 ATGACGGCTG TGGCAGATAT GGGACGAATT ATCAAGGAAA CAGCAAATCT TTCAGATATG 3540 GGAGTGGCCA AGTTGGTTGT ATTCGCTAAT GCTGTTGAGG ACAATCCATT TATGGCGGGT 3600 GCCTTTCATG GTGTTGGGGA AGCAGATGTT ATCATCAATG TCGGAGTTTC TGGTCCTGGT 3660 GTTGTGAAAC GTGCTTTGGA AAAAGTTCGT GGACAGAGCT TTGATGTAGT AGCCGAAACA 3720 GTTAAGAAAA CTGCCTTTAA AATCACTCGT ATCGGTCAAT TGGTTGGTCA AATGGCCAGT 3780 GAGAGACTGG GTGTGGAGTT TGGTATTGTG GACTTGAGTT TGGCACCAAC CCCTGCGGTT 3840 GGAGACTCTG TGGCACGTGT CCTTGAGGAA ATGGGGCTAG AAACAGTTGG CACGCATGGA 3900 ACGACGGCTG CCTTGGCCCT CTTGAACGAC CAAGTTAAAA AGGGTGGAGT GATGGCCTGC 3960 AACCAAGTCG GTGGTTTATC TGGTGCCTTT ATCCCTGTTT CTGAGGATGA AGGAATGATT 4020

GCTGCAGTGC	AAAATGGCTC	ТСТТААТТТА	GAAAAACTAG	AAGCTATGAC	GGCTATCTGT	4080
TCTGTTGGAT	TGGATATGAT	TGCCATCCCA	GAAGATACGC	CTGCTGAAAC	TATTGCGGCT	4140
ATGATTGCGG	ATGAAGCAGC	AATCGGTGTT	ATCAACATGA	AAACAACAGC	TGTTCGTATC	4200
ATTCCCAAAG	GAAAAGAAGG	CGATATGATT	GAGTTTGGTG	GTCTATTAGG	AACTGCACCC	4260
GTTATGAAGG	TTAATGGGGC	TTCGTCTGTC	GACTTCATCT	CTCGCGGTGG	ACAAATCCCA	4320
GCACCAATTC	ATAGTTTTAA	AAATTAAGAA	AATAGGAGAA	ATTTTAAGTT	CTATTTAAGA	4380
TTAGACGTGT	ATACTATAAT	САТТАААТАА	AGACCTCCTA	ATATTATTTG	AAACAGATAA	4440
CACTGAATTA	GTTTGAATTT	GATTTTCATC	ТААТАТСТТТ	ATTTAATGAA	CTCCTAAACT	4500
TTTTCATAAT	AATCTCCTTC	AAAAGTCGCC	TGTATGGGTG	GCTTTTATTT	TATCATTCAT	4560
GATATAATAG	AAGCAAACGG	AGGACGGAAA	ATGGTAAAAG	TACGATTGTA	TTTGGTACGT	4620
CATGGCAAGA	CCATGTTTAA	CACGATTGGT	CGCGCGCAAG	GTTGGAGCGA	TACTCCCTTA	4680
ACTGCTGAAG	GTGAACGAGG	GATTCAAGAG	TTAGGAATCG	GTTTGCGAGA	ATCTGATCTA	4740
CAGTTTGAGC	GTGCTTATTC	GAGTGATTCT	GGTCGTACCA	TTCAGACCAT	GGGAATTATC	4800
CTTGAAGAAC	TTGGCTTGCA	GGGGGAAATC	CCTTATCGCA	TGGACAAGCG	TATCAGAGAA	4860
TGGTGTTTCG	GTAGTTTTGA	TGGAGCCTAT	GATGGCGATC	TTTTCATGGG	CATTATTCCT	4920
CGTATCTTTA	ATGTGGACCA	CGTTCACCAA	TTGTCTTATG	CTGAACTGGC	TGAGGGCTTG	4980
GTAGAGGTCG	ATACAGCTGG	TTGGGCTGAA	GGCTGGGAAA	AACTCAGTGG	CCGAATCAAG	5040
GAAGGCTTTG	AAATGATTGC	AAAAGAAATG	GAAGATCAAG	GTGGAGGTAA	CGCCCTTGTT	5100
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GGTCTGGATA	ATGGTAGCGT	GACAATCCTT	GAATATGAGG	ACGGCCAGTT	TAGGGTTGAA	5220
GTTGTCGGTG	ACCGTAGTTA	CCGAGAGCTA	GGACGTGAGA	AGATGGAAGA	AGGCTCTATT	5280
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AAAACAGCCG	AGGGCACTCC	TTTCGGCTGT	TTTTGATGTG	GAAAACTAAA	GTGTAATGCT	5400
ATTGCTTTTA	GAGATTTTCA	TAAACAAGAG	CAAGGAACCT	ACTGTTAGAA	CAGTCAGGAT	5460
AGTTGACAAG	GTTGCGGCTA	CACCGTAATT	TCCTCTGAGA	ACCTCTGTAT	AAATAGCTAC	5520
AGTCATTGTT	CTTGTTTTGA	CATTGTAGAG	GAGGATAGAA	GTAGAGAGTT	TTGAAATCAT	5580
TGTGACTCAA	GATAAGATGG	CTCCAGAAAT	GATACCAGAT	AGCATCATTG	GAGTTGTAAT	5640
CTTAGCAAAG	GTATTGAGAC	GACTACTTCC	TAAGCTTTCA	GCAGCTTCTT	CAATACTTGG	5700
TGCTATTTGT	TGTAAGCTAG	CAACAGATGA	GCGAATAGTA	TAAGGTAATC	TTCTGGCAGA	5760

880 TAGAGACATA ATCAAGATGA AAGCAGTCCC TGTAATCATA AGAAATCCAC TTCCAAATAG 5820 ACCAGTATTG AAGGAAGAAA TGAAGGCAAT CCCTAGAACG GTTCCTGGTA CAATATAAGG 5880 TACCATACTG AGGCTGTCAA TTAAGTTTGT AAACAAATTC CGTTTTCTAA CGGCTAGGTA 5940 GGAGATAAAT GTCGCAAATA GAACAACTAG AACTAAGGCA ATCAAAGGGA TACGAATGGT 6000 ATTGAAAATA GCAGATCCCA TACGATGGAA AGCTACCTTG TAACTGTTTG GAGAATAACC 6060 TTTAACAGAT ACCATACCTG ATGTTTTTAG GAAAGAGGTA TAAATTAAGT AGATTTGAGG 6120 TAAAACAGAG ATAAAGATAA TTCCGTAGAC TGTTGCATAA ATGGCAGCCA TTTTTCCTTT 6180 TGTAGTTTTT TTAGGCTCAA TTGGATGGAG CAGATTCATG CTGAAACTGT AGCGGTTTGC 6240 AATGTGTTTT TGGATAAGGA AAATTGCCAA GGCAATGATA ATCGCCATAA TTGCAAAAGC 6300 AGAATTTCCT CCAACCTCGC TAATAAATTG GGTATAAATC AGGACAGGGA AAGTCCGATA 6360 CCCTTCGCCA ATCAACATAG GCGTTCCAAA GTCTGAGAAT GCTCTCATAA ATACAAGCAA 6420 GGAGCTGCTA GTAAGGTTGG AACTAGGAGA GGTAAAACAA CCGTTACGAT AGGTTTAAAT 6480 CCGAAGGACC CCATGCTTTC AGCTGCTTCA AGTAGAGAAT TGTCAATACT GTTCATTGTT 6540 CCAGCAACAT ATAGAAATAC CAGTGGGAAT AGTTGCAGTG TAAAGACAAG TACAATTCCT 6600 TTGAATCAAT AAATATCGAT AGCTGGAAGA TAAAGGGCAT TTGTCAAAAA TTTAGTGATG 6660 ACCTCATTTC GTCCTAGCAA GAGAACCCAG GAGTAGGCTC CTACGAAAGG AGCTGACATG 6720 GAAGCAATGA TAATCAATAT TTGTAGAAAT TTCTTCCCCT TGAAGTCATA CATAGAGAAG 6780 AGATAAGCTA ATAGGGTTCC TACAACTAAG GAAGTGATAG TAGCGGTAAT GGAAACCTTG 6840 AAACTGTTGA CTAGTGTCTC AGAGTAGTAG GCTTTACTAA AGAAAGTGAC AAAATTAGCT 6900 AGTGAGAATT GTCCTTCATG TATAAGTGCT TGCTTGAGCA CGGTAACGAT AGGATAAACG 6960 AGAAAGATAG GATAGGTAAG AAAGAGGAAG AAAGAGGAAA CTGTCCAAAT ATTTAGTTTT 7020 TTACGTTCCA TGGTTGACTC CTTTTATCAG GTTTTGGGAA CCATCTGCAG AAAAGATGTT 7080 TAATTTTTGC GTATTGATTC GTAGACGAAT ACGATTGCCT TTTTGTAGAT CTTCTTCAAA 7140 AGTTGATTCT TCACTAACTT GAATTTTTGA GGCAAAACCT GTCTCAATGA AATAATCCGT 7200 ATTTAGTCCA AGATAGACGC TATCTCTAAT AGTTCCTTCA ATATCTCCAG ATTCATCTTT 7260 GATAAACTCT TCGGGACGAA TGCTTACATG AATAGCTTGC TCCTCAACCT GATCAAGAGC 7320 TGGCATTCGA AGGGCATAGC CATCTGAAAA GACGATATAA GCGCCGTCGC TCCGTTTTTC 7380 AAGATTGGCA GGGATAATAT TTGTGCGTCC GATAAAGGTT GCCACAAACT CATTAGCTGG 7440 TTTATGATAG AGTTCTTTTG GTCGGCCGAT TTGTTGGATC ACCCCATCTT TCATAACAGC 7500 AATTTGGTCT GAAATAGCCA TGGCTTCTTC TTGGTCGTGG GTTACATAAA CAGTTGTAAT 7560

TCCCACTTCG	TGTTGGATTT	CTCGGATGGC	TTGACGCATA	TCCAAGCGAA	GTTTGGCCTC	7620
CAGATTACTA	AGTGGCTCGT	CCATGAGGAG	AACACTTGGA	TTAACCGCTA	AGGCGCATGC	7680
CAAGGTGACA	CGTTGTTGTT	GTCCACCACT	GAGTTTATCG	GGCTTTCGAT	CCGCATATTG	7740
AGCAATTTGC	ATGAGTTCAA	GATACTTGTT	GGTCTGTTGA	ATCAATTCTT	CTTTTGGAAC	7800
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AATGTTCAAA	TTCTCAATAA	CAGGGACATC	GTGGTAGATT	TTTTTGGCGT	TAATAATTTT	8100
GATCTCACTC	ATAGTGAACC	TCTTTTACTG	TTTAGATTGG	ATATCTGTAA	AGACTTCGTT	8160
GTATTTCTTA	ACGATATCTG	ATTTATTCTT	GATGACATAA	TCATAATCTT	CAGTGAGTGT	8220
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GACGGTTCCT	TCTTTTGGAT	AGACTACCTT	AATGTTAGCT	CCGTCATTTA	AGAGTTTAAC	8460
TGCTGGATCT	TCATAAGAGA	GACCAACAGC	CATTTCTCCA	TCAGCGACTA	CTTTATAGAC	8520
ACTAGATGAA	CTTGAACCGA	TTTTACCATC	AATAAGTGTG	AAAAGATCTT	TTACATAAGA	8580
CCAAGCCTTA	TCATCTTTGT	AACCACCTTG	AGCTTGTAGC	ATATTTGTTA	ATTGAGCAAA	8640
GGCGCTAGAA	GAGTTTGCTG	GGTCAGCAGT	TGCGATTTTT	CCTTTTAGTT	CAGGTTTGAA	8700
AAGATCGTTA	TATCCTTCGA	TGTTCATGCC	TTTAGTTAAA	TCAGGGTTGA	CGATTAAAAC	8760
ACTACCATCT	AGTGTATAAG	GAGTAGAGTA	GCCAGTTGTG	TTTTGATATT	CTTTGATAAC	8820
ATTATCATTT	TCTTTTGAAG	TATAGTTTTC	AAAGAGTTCT	CCGTGGGTAG	TATATTGTGT	8880
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GAAAAGTTCT	CCAGTACCAG	CTTGAATCAG	TTCTACTTTG	ATACCATATT	TTTCTTCAAA	9000
GGCAGGAATA	GTTGCTCCAA	TTAAGCCCTC	TGAGTTTGGT	GAATAAACGA	CTAGCGAACC	9060
GCCGTCTCCT	TTATCAGATG	AACTGTCATC	GGCAGATTCA	TTAGAAGAAC	AAGCAGCATA	9120
ATACATCCAT	TTCTTTTCA	TGATGGATAC	CTCCGTTGTG	TTATTTAAGT	TTATTTTAAA	9180
ACAATGTAAG	CGTTTTTAAA	ACATACAATT	СТАТТСТАТА	GTGTATTGAA	TCTATAACAG	9240
TACACTTTGA	CTGCTAAAAT	ATTTCTATAA	ATTAATTTGA	CTTTCCTGAT	AGAGATGTTC	9300

882	
ACATCTTATT TCAATTCACT ATATTAGAGT AAAATTCTCT ACAAAAAGAA GAATAGCCTA	9360
TTTTACTATT CTTCTGAGTG ATTTCAATTC CTTTGGGGAA ATATGGAGAT ACTTTTTAAA	9420
TCCTGACAAA TGGTTGTTTC TTTTTCTAAA TCGGTGATAC TGTATCGGAG AATGCGCGTG	9480
AGGTCACAAA GGCTGCGATA GAGCTTCTAT GGAGAATTTC TTTTTGGAGA GATTTTTTAA	9540
AGGAATGAGA CATCCGCTAC CTCCTTGGAA GGTTTTTG	9578
(2) INFORMATION FOR SEQ ID NO: 128:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 13440 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 128:	
CGGGCTGTTG TGACGATTCT TATTTCTATC TGTGTTATCT TTTTGGGAAC TATTTTGGGT	60
GTTGTCTTGG CTTTTGGGCA ACGTTCAAAG TTTAAACCGC TTGTTTGGTT GGCCAACTTG	120
TACGTTTGGA TTTTCCGTGG GACACCGATG ATGGTTCAAA TTATGATTGC CTTTGCTCTT	180
ATGCATATCA ATGCTCCGAC TATTCAGATT GGAATTTTAG GTGTTGATTT TTCGCGTCTG	240
ATTCCAGGGA TTTTGATTAT CTCTATGAAT AGTGGTGCTT ATGTTTCGGA GACTGTTCGT	300
GCCGGAATCA ATGCGGTTCC AAAAGGTCAG CTAGAAGCGG CTTATTCGCT AGGGATTCGT	360
CCTAAAAATG CGATGCGTTA TGTGATTTTG CCACAAGCAG TCAAAAATAT CTTGCCAGCA	420
TTGGGGAACG AATTTATCAC CATTATCAAG GACAGCTCCC TCTTATCAGC TATTGGGGTC	480
ATGGAGTTGT GGAATGGGGC TACAACAGTT TCTACAACAA CCTATCTACC TTTAACACCA	540
CTTTTATTTG CAGCATTTTA CTACTTGATT ATGACCTCTA TTCTGACAGT AGCCTTGAAA	600
GCTTTTGAAA AACATATGGG ACAAGGAGAT AAGAAATAAT GACAGAAACC TTGATAAAAA	660
TTGAAAATTT ACATAAATCC TTTGGAAAGA ATGAAGTATT GAAGGGCATC AACCTCGAGA	720
TTAAAAGAGG AGAAGTTGTC GTTATCATCG GTCCTTCAGG GAGCGGGAAA TCTACCTTGC	780
${\tt TTCGCTCTAT} {\tt \ GAATTTGTTG \ \ GAAGAAGCAA \ \ CCAAGGGGAA \ \ GGTTATCTTT \ \ GAGGGAGTCG$	840
ATATTACGGA CAAGAAGAAT GACCTGTTTG CCATGCGTGA GAAGATGGGC ATGGTTTTTC	900
AACAATTCAA TCTCTTTCCT AATATGACTG TGATGGAAAA TATCACCTTG TCCCCTATCA	960
AGACCAAAGG TGACAGTAAG GCCGTTGCAG AGAAAAGAGC TCAGGAACTT TTGGAAAAAG	1020

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1080

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CATTGTATTT	TTTGGTATAA	TTAAAGATAT	TTGTAAGAAA	AGAGAAGTGA	TATGACACAG	1560
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GGAATTATGG	AAATGTTCCA	TGAATATGGG	ATTGACTTGG	AAGGTAAAAA	TGCAGTCGTC	2040
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ATTCTGGTTG	TTGCAATCGG	TCGTGCCAAG	TTTGTGACTG	CTGACTTTGT	CAAACCAGGT	2220
GCGGTAGTCA	TTGACGTTGG	GATGAACCGC	GATGAAAATG	GTAAGCTCTG	TGGGGATGTT	2280
GATTATGAGG	CGGTTGCCCC	ACTTGCTAGC	CACATTACGC	CAGTCCCTGG	AGGTGTCGGT	2340
CCTATGACCA	TTACTATGCT	GATGGAGCAA	ACCTATCAGG	CAGCACTTAG	GACATTGGAT	2400
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884 TTAAAACTGG TCGTCTTTTA TCTGCTGTGA AAGCCTTTGG GCGAGATGCT GAGGAGTTGG 2940 TTTTGGATAG TCGAAATGCT GCATCTGATC CGATAGATTA TTTTGACTAT GTCATGTTAG 3000 GGTGGTCAAA TACAAGTTCT GGTTATCGAT TGGCGATGGA GCGTTTATTA GGTCGAGCTC 3060 CTTCAGAGAA AGAATTACAA GACAAGTTTA TTCCTGGAGT AAGTTTTCAT TTTATCTATA 3120 CAGATTTGAT TAAAGTTCCT GGTTATATTT TTGATGGTTA CCATGCTGTA AAAATTAAGG 3180 ACATGCTTAA TTTATTAAGT GAGTTGTATA TTTGCATTAT TCCAACTCAT AATAAGAGCC 3240 AATTTGAAAA TATTATTCCA ACCAAAATAC AAGATAGGGT GTATTATCTT GACTATGCTG 3300 GAGAAGACTT AGAAGAGTGG ACTAAGAAAG TCTATCAAGT TGTTTTAAAA CAATCAGATA 3360 AAGGATAGTT GAGGAAAAAA CGATGAAAGT GATTGATCAA ACCTTACTAG AAAAAGTCAT 3420 TATTGAACGT TCTTGTACAA GTCATAAAGG AGACTACGGT CGTCTGCTGT TGCTTGGTGG 3480 GACTTATCCT TATGGTGGTG CCATCATCAT GGCTGCTTTA GCAGCTGTAA AAAGCGGTGC 3540 AGGATTGGTA ACCGTTGGAA CGGACAGGGA AAATATCCCT GCTCTACACA GCCATTTGCC 3600 TGAGGCTATG GCCTTTTCTC TGCAAGATCA GTAATTGTTA CAAGAGCAAT TGGAGAAGGC 3660 AGAAGTTGTC TTGCTGGGGC CTGGTTTACG AGACGATACG TTTGGAGAAA ATCTTGTAAA 3720 ACAGGTCTTT GCTAGCTTAA AAAAGAATCA GATTTTGATT GTAGATGGAG GGGCCTTAAC 3780 CATCCTTGCT AGGACAAGTT TGTTGTTTCC ATCTAACCAG CTTATCTTAA CTCCCCACCA 3840 AAAAGAATGG GAAAAACTGT CTGGTATTGC TATTGAAAAG CAAAACGAAG GTACAACATC 3900 TAGTGCCCTG ACTTCTTTCC CTCAAGGAAC AATTTTGGTA GAGAAAGGTC CAGCTACTCG 3960 TATTTGGCAA GTTGGCCAGT CTGATTATTA CCAGTTAAAG GTTGGCGGTC CCTATCAGGC 4020 GACTGGTGGT ATGGGTGATA CACTGGCTGG AATGATTGCA GGATTTGCAG GCCAATTTCG 4080 ACAGGCCAGT CTCTACGAAC GTGTGGCAGT AGCAACCCAT CTTCATTCAG CCATAGCCCA 4140 AGAACTATCT CAAGAAAATT ATGTGGTCTT GCCGACGGAA ATTAGTAATT GTCTTCCTAA 4200 AGTAATGAAA AGATATGTCT AAAATAGTTA GACAAAAAAT GTTGATAATT TGTATCATTA 4260 TTCTTAATTC ACAAAAACG AACGTTTAGT ATTCTTCTTG CTAAGAAACT AAATTTGTTC 4320 GTTTTTTAC TCTTGTAAAT CTATTTTGT TAGAGTTGAT TTGGTTTACA TCCGTACTTA 4380 AATTGATTTG TTAGAGCTCT ACTTTTATTA AAAAAATTCA ATTTCAAGGA TAAATAAGCA 4440 GTATTCTAAA GGTACTTTTA GATGAAATAA AAGCCTTTAC ATGGTATAAT AGAGGTAGCT 4500 CTTTAATGGA GGTGTTTGAG TGGAAAATCT GAAGAAAATG GCAGGTATCA CGGCTGCTGA 4560 ATTTATCAAG GATGGGATGG TTGTAGGGCT AGGAACAGGT TCTACTGCCT ATTATTTTGT 4620 CGAAGAAATC GGTCGTCGAA TCAAGGAAGA AGGCTTGCAG ATTACAGCTG TGACGACTTC 4680

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AGACTTTGTC	GATGTGACAG	TCGACGGGGC	GGATGAAGTG	GATAGTCAGT	TTAATGGAAT	4800
CAAAGGCGGT	GGTGGTGCCC	TTCTCATGGA	AAAGGTGGTC	GCAACACCAT	CAAAAGAATA	4860
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ACCAAGTTTC	CGTGAAAAAG	ACGGCCAACG	TTTTGTGACC	GATATGCAGA	ATTTTATCAT	5040
TGACCTCGCC	TTGGATGTCA	TTGAAAATCC	AATTGCTTTT	GGACAAGAAT	TGGACCATGT	5100
CGTTGGTGTT	GTGGAGCATG	GTTTATTCAA	CCAAATGGTG	GATAAGGTAA	TCGTTGCTGG	5160
ACGAGATGGA	GTTCAGATTT	CAACTTCAAA	AAAAGGAAAA	TAGAAGGGGG	CATAAGATGT	5220
CTAAATTTAA	TCGTATTCAT	TTGGTGGTAC	TGGATTCTGT	AGGAATCGGT	GCAGCACCAG	5280
ATGCTAATAA	CTTTGTCAAT	GCAGGGGTTC	CAGATGGAGC	TTCTGACACA	CTGGGACACA	5340
TTTCAAAAAC	AGTTGGTTTG	AATGTCCCAA	ACATGGCTAA	AATAGGTCTT	GGAAATATTC	5400
CTCGTGAAAC	TCCTCTTAAG	ACTGTAGCAG	CTGAAAGCAA	TCCAACTGGA	TATGCAACAA	5460
AATTAGAGGA	AGTATCTCTT	GGTAAGGATA	CTATGACTGG	ACACTGGGAA	ATCATGGGAC	5520
TCAACATTAC	TGAGCCTTTC	GATACTTTCT	GGAACGGATT	CCCAGAAGAA	ATCCTGACAA	5580
AAATCGAAGA	ATTCTCAGGA	CGCAAGGTTA	TTCGTGAAGC	CAACAAACCT	TATTCAGGAA	5640
CGGCTGTTAT	CTATGATTTT	GGACCACGTC	AGATGGAAAC	TGGAGAGTTG	ATTATCTATA	5700
CTTCAGCTGA	CCCTGTTTTG	CAGATTGCTG	CCCACGAAGA	CATTATTCCT	TTGGATGAAT	5760
TGTACCGTAT	CTGTGAATAC	GCTCGTTCGA	TTACCCTTGA	GCGTCCTGCC	CTTCTTGGTC	5820
GCATCATTGC	TCGCCCTTAT	GTAGGTGAAC	CAGGTAACTT	CACTCGTACG	GCAAACCGTC	5880
GTGACTTGGC	TGTATCTCCA	TTTTTCCCAA	CTGTTTTGGA	TAAATTGAAT	GAGGCTGGTA	5940
TCGATACTTA	TGCTGTGGGT	AAAATCAACG	ATATCTTTAA	CGGTGCTGGT	ATCAACCATG	6000
ACATGGGTCA	CAACAAGTCA	AATAGTCATG	GAATTGATAC	ACTATTGAAG	ACTATGGGAC	6060
TTGCTGAGTT	TGAAAAAGGA	TTCTCATTCA	CAAACCTAGT	TGACTTTGAT	GCCCTTTACG	6120
GCCATCGTCG	TAATGCTCAC	GGTTACCGTG	ATTGCTTGCA	TGAGTTTGAT	GAACGCTTAC	6180
CTGAAATTAT	CGCAGCTATG	AGAGAGAATG	ACCTTCTCTT	GATTACTGCG	GACCATGGAA	6240
ATGACCCAAC	GTATGCAGGA	ACGGATCACA	CTCGGGAATA	TATTCCATTG	TTGGCCTATA	6300
GCCCTGCCTT	TAAAGGAAAT	GGTCTCATTC	CAGTAGGACA	TTTTGCAGAT	ATTTCAGCGA	6360
CTGTTGCCGA	TAACTTTGGT	GTGGAAACTG	CTATGATTGG	GGAAAGTTTC	TTAGATAAAT	6420

886 TGGTATAAGA TGACGCGCTA TGCTTTGCTG GTGAGAGGTA TCAATGTTGG TGGTAAGAAT 6480 AAGGTCGTCA TGGCGGAGCT TCGTCAAGAA TTGACAAACT TGGGACTGGA AAAGGTTGAG 6540 AGCTACATCA ATAGTGGCAA TATTTTCTTT ACTTCGATAG ATTCCAAAGC CCAATTGGTT 6600 GAAAAGCTAG AGACTTTCTT TGCAGTCCAT TATCCATTTA TTCAGAGCTT TTCTTTACTG 6660 AGTCTAGAGG ACTTTGAGGC GGAACTTGAA AATCTACCAG CTTGGTGGAG CAGAGACTTG 6720 GCACGAAAAG ATTTTCTCTT TTACACTGAG GGTTTGGATG TGGACCAAGT CATCGCGACA 6780 GTTGAAAGTT TAGAGCTGAA AGATGAAGTG CTTTATTTTG GAAAACTTGG GATTTTCTGG 6840 GGGAAATTTT CTGAAGAATC CTATTCTAAG ACTGCCTATC ATAAGTACTT GCTGAAGGTG 6900 CCTTTCTACC GCCACATTAC TATTCGTAAT GCTAAAACCT TTGACAAAAT TGGTCAAATG 6960 CTAAAAAAAT AATAAAGGAG ACACAAATG ACATTTTTAA ACAAAATCCA TGAAACTGCT 7020 ACTTTCCTGA AAGAAAAGGG AATTGCAGCC CCTGAGTTCG GTCTAATCCT TGGATCAGGA 7080 CTTGGAGAAT TGGCAGAAGA AATCGAAAAT CCAGTTGTAG TAGACTATGC TGAGATTCCA 7140 AACTGGGGCC GTTCAACAGT AGTCGGTCAT GCTGGTAAAT TGGTATATGG TGAACTGGCA 7200 GGTCGCAAGG TCTTGGCTCT TCAAGGGCGT TTCCATTTCT ATGAAGGGAA TCCTCTGGAA 7260 GTGGTGACTT TCCCAGTTCG TGTGATGAAA GTTCTTGGAT GTGAAGGTGT TATTGTAACC 7320 AATGCAGCTG GCGGTATCGG ATTTGGTCCT GGTACCTTGA TGGCTATCTC AGACCATATC 7380 AACATGACGG GGCAAAATCC ATTGATGGGT GAAAACTTGG ATGACTTTGG CCCACGTTTC 7440 CCAGATATGT CTAGGGCCTA CACACCAGAA TACCGTGCCA CTGCCCATGA AGTGGCTAAA 7500 AAACTTAATA TCAAGCTTGA TGAAGGTGTC TATATCGGAG TTACTGGTCC GACTTATGAA 7560 ACACCAGCAG AAATTCGTTC CTATAAGACA CTGGGAGCAG ATGCAGTTGG TATGTCTACG 7620 GTTCCTGAAG TTATCGTGGC AGCCCACTCT GGCTTGAAAG TTCTGGGAAT TTCATGTATC 7680 ACTAACTTTG CGGCCGGTTT CCAAGAAGAA CTCAATCACG AAGAAGTTGT AGAAGTGACT 7740 GAACGTGTTA AAGGTGATTT CAAAGGCTTG CTTAAAGCGA TTCTTGCTGA ATTGTAAGAA 7800 AAAAGATTTA AAAGGGGGAG TGCCTCTGTT TTTTCAGGAT TGACTGCCTA TCCGGATTAA 7860 AGAAGAAACA GAGGAATACT ATGAGCTTCT TCCTGCTCTT ATAACTGAAA GAAGCGGAAG 7920 AATAGGTATG TCTGATCTGA TAGCCAGCAT TGTGAAAGAC AAGATTCTAG GATACTAGCA 7980 TTAGCTTCCT AGCCAAGCAG ACTAGTATGA TAAGGAGAGA TGAGAATGAA TTGACTTTCT 8040 GAATTTCTCA GTCTTATCAT ATATAGCACA ATGAGATTTC GCTTGAGTCT GCTTGTAAAT 8100 AAACGAAAAG AAAGATAAGA AATAATGAAA ATTGGTCAAC GAATTATGCG CTTTGGCATA 8160 AAAAATTAAG TATCGGAGTT GTATCTGTTG TAGTCGGCTT TGATTTCTAG CTCCAGCTGG 8220

AATTTCAGCC	AATGAAGTAA	AGCAAGATGT	AACATCTGAA	GTGGTAATAG	GTGTGCTAGA	8280
TTCTAAGGAG	GAATTGAAAG	AGTCAGAAAA	TGATGCTCCA	AAACTAGAAA	CTCCTCTTAG	8340
AGAGGAGCCA	AGACTAGCTC	CTCAAACGCT	TCCGGAAGCA	AGTGAAGTTC	TTGAAAACAA	8400
AAGGGAAGAG	TCAAAAGTAG	AGATAACATA	ACCAGCTCAA	GCGGATGATA	TCCGCAAGGT	8460
TGTTGGGGAA	TTAGCCAAGG	ATATAAGTAT	TACTAAGTTG	TATATGACAG	GTCATTCTCT	8520
TGGATGTTAC	CTAGCTCAGA	TTGCAGCGGT	TGAAGCTTAC	CAAAAATATC	CTGATTTTTA	8580
TAACCATGTA	TTGAGGAAAG	TGACAACTTT	CAGTGCTCCT	AAAGTGATTA	CTTCCAGAAC	8640
TGTTTGGAAT	GCTAAGAATG	GTTTCTGGGA	TGTTGGTTTG	GAAAGTCGTA	AATTAGCTGT	8700
TAGTGGAAAA	ATTAAGCATT	ATGTGGTTGA	TAATGACAAT	GTTGTGACTC	CCTTGATTCA	8760
TAATAATCGT	GATATTGTTA	CATTTACAGG	TAATTCACGC	TTTAAACACC	GTTCTCGTGG	8820
CTATTTTGAA	AGTCCAATGA	ATGATATTCC	TAACTTTAAT	ATTGGTAAAC	AAGCTACCTT	8880
GGATAAACAT	GGTTATCGTG	ATCCGAAATT	GGATAAAGTG	CGATTCTTTA	AGAAACAGGC	8940
TCTGCCTCGA	TCTTCTAGTC	AACCAAGCGC	TGAACCAATG	GAAAATATTG	CCTCAGGAAA	9000
ACAGGTTACT	CAAAGTTCGA	CAGCTTTCGG	AGGAGATGCT	AGAAGAGCTG	TGGATGGCAA	9060
AGTCGATGGT	AACTATGGTC	ACAATTCTGT	CACTCATACA	AACTTCCAAT	CTAAGCCTTG	9120
GTGGCAAGTA	GATTTGGCTA	AAGAAGAAAC	CATTCGCCAA	ATCAATATTT	ACAACCGAAC	9180
AGACACTGCC	CAGGATAGAT	TGGCAAACTT	TGATGTCATT	CTTTTAGACA	GTTCTGGTAA	9240
AGAAATTGAG	TGAAAACGTA	TAACATCTCC	TAAAGATGTG	TCAGCACAAA	TTACGATTAA	9300
ССАТААААА	GCGCGCTATG	TTCGGATTGA	GCTAGAAGGC	TATAATGCCC	TCAGTCTTGC	9360
AGAAGTTGAA	GTTTTCTGCT	TTATAGCTAC	GAATGCTGAA	ACGGCGACAC	AAGTTTCTAA	9420
GCCAGTTCAA	CCAATCAGTC	AGACTCCTGT	GAAGGATAAA	ACATTGACAA	TTCAACACAG	9480
TGGAGCTTAC	ATTGCCCGCT	ACTCCATAAC	TTGGGAAGAA	GTTCCAGTAG	ATAAAGATGG	9540
AAACCAAGTT	GTTCGTAGTC	ATTCTTGGGA	AGGAAGCGGT	CGCAACCAGA	CTGCAGGTTT	9600
TGTCCTCAAC	CTCCCAATCA	AAGAAAATAT	GAGAAATCTG	CGAGTTAAGA	TTGAGAAAAA	9660
GACGGGCCTA	CTATGGAATA	GATGGCAAAC	AATCTATGAA	AACAGACCAA	TTTTAGCTCA	9720
ACCCCACCGT	AAAATTACCC	ATTGGGGTAC	GACATTGAAT	TCCAAGGTGA	GTGACGATGA	9780
TGTCTTGTAA	TCTGATGGTA	GAATGACAGT	TAGTTTGTCT	AGTTTATAAG	AAAGTACTAC	9840
CTGAGCTTGA	ATAGGACTCA	GGTAGCTCTC	TATGAAAGAA	СААААТТААТ	ACTCAATGAA	9900
AATCAAAGAG	CAAACTAAGA	AACTAGCCGC	AGGTTGCTCA	AAGCACTGCT	TTGAGGTTGT	9960

888

AGATAAGACT GACGAAGTCA GTCACATATA TAATCCAAGG CGACGTTGAC GTGGTTTGAA 10020 GAGATTTTCG AAGAGTATAA ACAGAAAGGT AGAGCGCGTG TTCTAATTTG AACACGAGTA 10080 GAAAACTTTT CTAAAAACAA AAACGAAAGG ATGGGTAAAC TGTATTCGCT GAACTGAATA 10140 CGGGCGACTC TCCTCTAAAT CAAAATTAAG AAAGGAATTG ACCCCACCCT AAAAGTAGTG 10200 GGAAAAAGAT AGTTGATCTA GCGAGCATCG CTCACTGCGC CCAACTCCTA TTTTCCCTTC 10260 GCTTTTTGAT GGGTTTGGTA TCTTTCTCAA TATAAAATAT AAAATAAAGA AAGGTAGAGC 10320 GTGTGTTTTG ATTTGAACAC GAGCGGAAAA CTCGGAAAAT AGATAATCTG ACTGAAAAAT 10380 CAGGATTTCT CGTCAGGTTC CTAATTTTCA GTCGTTTTCT TCTCGCTCTT TGTATCATAA 10440 ATTATGTCTA TCCATATTGC TGCTCAGCAG GGTGAAATTG CTGATAAAAT TCTTCTTCCT 10500 GGGGATCCTC TTCGTGCTAA GTTTATTGCG GAGAATTTCC TTGATGATGC TGTTTGTTTT 10560 AACGAAGTGC GTAACATGTT TGGTTACACT GGTACTTACA AGGGTCACTG TGTATCTGTC 10620 ATGGGAACTG GGATGGGAAT GCCATCTATT TCGATTTATG CGCGTGAGTT AATCGTAGAC 10680 TACGGTGTGA AGAAATTGAT TCGTGTGGGA ACTGCAGGTT CTTTGAATGA AGAGGTTCAT 10740 GTTCGTGAAT TAGTTTTGGC GCAGGCGGCT GCAACCAACT CAAACATCGT TCGTAATGAC 10800 TGGCCACAGT ACGATTTTCC ACAAATTGCT AGCTTTGATT TGCTTGATAA AGCCTACCAT 10860 ATCGCCAAAA AACTTGGTAT GACTACTCAC GTTGGGAACG TTTTGTCATC TGATGTCTTT 10920 TACTCAAATT ACTTTGAAAA GAATATCGAG CTTGGTAAAT GGGGAGTCAA GGCTGTGGAA 10980 ATGGAAGCAG CAGCTCTTTA CTATCTTGCT GCCCAATACC ATGTTGATGC GCTAGCTATC 11040 ATGACCATCT CTGATAGCTT GGTCAATCCA GACGAAGACA CAACTGCAGA AGAACGTCAA 11100 AATACCTTCA CTGATATGAT GAAGGTTGGT TTGGAAACCT TGATTGCAGA ATAATTATAG 11160 11220 CAAATTTCGT CCTTTCTTTT TTGATATTCA GGGCGATAAA AATCCGTTTT TTGAAGTTTT 11280 CAAAGTTCCG AAAACCAAAG GCATTGCGCT TGATAAGTTT GATGAGATTA TTGGTCGCTT 11340 CCAGTTTGGC ATTAGAATAG TGTAGTTGAA GGGCGTTGAC GATTTTCTCT TTGTTCTTTA 11400 GAAAGGTTTT AAAGACAGTC TGAAAAAGAG GATGAACCTG CTTCAGATTG TCCTCAATGA 11460 GTCCGAAAAA TTTCTCAGGG TCTTTGTTCT GAAAGTGAAA AAGTAAGAGT TGATAGATCT 11520 GATAGTGGTG TTTCAAGTCT TCTGAATAGC TTAAAATCTT GTCAAGAATT TCTTTATTTG 11580 TTAAGTGCAT GCGAAAAGTA GGGCGATAAA AACGTTTATC GCTSATTTTA CGACTATCCT 11640 GTTGGATGAG TTTCCAGTAA CGCTTGATAG CCTTGTATTC ATGAGATTTT CGTTCAAACT 11700 GATTCATAAT TTGAACACGA AAACGACTCA TGGCACGGCT GAGATGTTGG ATAATATGGA 11760

AACGATCTAG	AACGATTTTA	GCACACGGAA	AAAGCTGTTT	AGCCAAGTCA	TAGTAAGGAC	11820
TAAACATATC	CATCGTAATG	ATTTTCACTT	GACAACGAAC	GGCTCTATCG	TAGCGAAGAA	11880
AGTGATTTCG	GATGACAGCT	TGTGTTCTGC	CTTCAAGAAC	AGTGATAATA	TTAAGATTAT	11940
CAAAATCTTG	CGCAATGAAA	CTCATCTTTC	CCTTAGTGAA	GGCATACTCA	TCCCAAGACA	12000
TAATCTTTGG	AAGCCGAGAA	AAATCATGCT	CAAAGTGAAA	GTCATTGAGC	TTGCGAATGA	12060
CAGTTGAAGT	TGAAATGGCC	AGCTGATGGG	CAATATCAGT	CATAGAAATT	TTTTCAATTA	12120
ACTTTTGAGC	AATTTTTTGG	TTGATGATAC	GAGGGATTTG	GTGATTTTTC	TTTACCAGGG	12180
GAGTCTCAGC	AACCATCATT	TTTGAAsAGT	GATAGCACTT	GAAACGGCGT	TTTCTAAGGA	12240
GAATTCTAGA	AGGCATACCA	GTTGTTTCGA	GGTAAGGGAT	CTTAGACGGT	TTTTGAAAGT	12300
CATTTTTTTT	CATTAGACTT	CCACAATCAG	GGCAAGATGG	AGCCTCATAA	TCCAGCTTAG	12360
CGATAATTTC	TTTGTGGGTA	TCCATATTGA	TGATATCTAG	AATCTTGATG	TTTGGGTCTT	12420
TAATATCGAG	CAGTTTTGTG	ATAAAATGTA	ATTGTTCCAT	ATGATTCTTT	CTAATGAGTT	12480
GTTTTGTCGC	TTTTCATTAT	AGGTCATATG	GGACTTTTTT	TCTACACAAA	AATAGGCTCC	12540
ATAATATCTA	TAGTGGATTT	ACCCACTACA	AATATTATAG	AGCCCAAAAA	GGAAGCCCTT	12600
TATGAATTGT	AGGACTTCCT	TTTCTTATCC	AGAAATTGAT	CTAGCTCTCT	CTGATTTCGA	12660
AGAATAGTGA	CTTTATGTGA	ATATTCTTGG	CAAAGTTTTT	GGTAATTTTC	TTTTTGAGTT	12720
TTGCGGACGC	CCATCCCAAA	GAATCCATCT	GATAAACTCC	CACTCAAAGC	GTTCAGGGCA	12780
ATCTACCGCC	ATACTTTCTC	TGACTTTTCC	ACGGTATTTA	AGATAACGCT	TAAAGGCTCT	12840
AAAGAGACAG	GTCAATGGCG	AAAAATTGAG	AAAGATGATT	TGGTCAGCTT	CTTGCATTCG	12900
TTCTTGGTAG	TAGCACCAAG	AATAATTACC	ATCGATGACC	CAAGCTTTAT	GCTTGGTGAG	12960
AAAGTTTTTT	ATCTCGGTTA	ACATCCATTC	GCAGTCACTG	TCTTGCCAAC	CAGGTTGAAA	13020
TTGGAGTGTG	TCCATGTGCA	GTTTTGGAAT	GGAGTAGTAG	TTAGATAACT	TTTCTGCTAT	13080
AGTTGACTTA	CCAGAACCAG	AATATCCGAT	AATTGCGATT	TTCATTTTCT	ACCTTTTCCT	13140
ATTTGGAGAC	AAAAAAACAG	CCTCTATGGA	CTGTTTCTTA	TTTAACAAGT	TTAGCTGAAA	13200
GACGAGCTTT	ATCGCGGCTT	GCTTTGTTTT	TGTGAATCAA	ACCTTTAGTT	TCTGCTTTAT	13260
CGATAGCTGA	GCTAGCAGCA	CGGAAAAGTT	CTTCAGATGG	GTTTGCTTCG	AAAGCTTTTA	13320
TAGCAGTACG	CATAGCTGAT	TTTTGAGCTG	AGTTCTTTTC	GATTCGTCTA	ACGTTCAATT	13380
CAGCGCGTTT	GATAGCTGAT	TTAATGTTTG	CCAATGGTCT	TACCTCCATA	TTTACTAACT	13440
(2) INFORM	ATION FOR SI	EQ ID NO: 12	29:			

890

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 8512 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 129:

,	CCTTTTTTCA	AAAACTAGAT	ACTAGTCTAT	CAAAAGTAGG	AAAGGGTTTC	AAGAAAATTG	60
	ATTGGAAATT	TTTTGAAAAT	CATAGAACTA	TTAGCTAATC	CCTAGTATTG	AAAAGACTGG	120
	ATAGCTTCTT	TCAGGTCATC	TTGTAAACTA	TTTCTCTGGT	CAAGTTGGAC	ATAGACTTCC	180
	ACCAGACAGG	ATCTAAAGTT	GGAAAATTTG	TAAAAATCCT	CCCTTTCTTC	TATCGGAAAA	240
,	TCAACAGTTT	TTATCCAAGA	AGCTACTTGT	TCTTGCTCCA	ACTTCCCTTG	ТААААТАССТ	300
	TCATAGATCA	CTCTTGCTAA	ACGCCAATCC	TCATCATCTG	TAAAGCGAAT	CGACATTCTT	360
,	TTAAATAGTT	GGCCAAGTAT	ATCAAATACT	TCATGAACTC	TGTTTTTAGG	AAAGTCTGGA	420
,	TGACAAACCA	CCTCTGTCAG	TAAATCGGCT	CCATGTGCAA	AAGCGTGAAC	CCAACCATAC	480
,	TGACTTGAGA	AACCCCTTGT	ATCCTTTTCT	TTTGAAAGAT	AGTGCAAGCC	TTGATTTAAA	540
į	AGGACATTAC	GAATTTCTGG	AGAAGGATTT	CCCAAATGAT	CAAACAACCA	CTGGATTTCT	600
•	TCCTGGTTAT	AATTTGGTTT	TTCTTCTGCT	ATTTTTCTTA	GTAAATCTTG	ATACATGGTC	660
1	ААТАССТСТА	CATTTCTAGC	AACTGTTCAA	AAAGGCAGTC	TTAAATGACT	CAATATTGAA	720
•	ТТСТСААТТА	AATACAATCT	GATATAAAAT	GACGTAAATA	ACTATCAATA	CCAGTTCTAC	780
1	AGTAAGTTCA	AATTTAACAT	CACGACCTTC	AACGACATTT	TTGAAAATAG	СТАСААСТАА	840
(	GACAAATAGA	ATGACGCTTA	ACAAGCCCAT	AAACATCATT	СТААААААТТ	TTTCTATTCC	900
(	CCTACTCTCC	CAACTCAGCA	CTATAGGAGA	TAATCTGGTC	AACTGTGTCA	GACAAGAATT	960
(	GGATGGTATC	ACGGAGTGGT	TTGTCTGTTG	AAATATCAGC	ACCGATAATC	ATGGCTGACT	1020
(	CAAGTGGTGT	CTTGCTACCA	CCTGATTTGA	GGAGATTGAG	CCAGTCTTCA	GCTCCAGTTT	1080
•	CAGAATGTTT	TAGATGAAGG	TAACCAGCAG	TCGAGATAAC	TAGTCCTGCT	GAGTAAGTGT	1140
1	AACTATACAA	GCCCATATAG	TAGTGAGCTT	GGCGCATCCA	AGTCAGAGTT	GCATCATCGT	1200
(	CAATTTCAAT	AGCATCTCCC	CAGAAATCCG	TCAAAACTTC	CTTCATAATG	CTGTTGAGCT	1260
•	TGCTTGCTCC	AAAGGTCTCC	CCTTCTTCAA	TCAATGTATA	CACCTTACGC	TGGAAGGCGG	1320
(	CTTCCAAGAG	GTGGGTGATA	AAGTTATGGA	AGTAGGTGTC	TGTCAAGCGA	TGAGCCAGAG	1380
(	CGAAGCGTTT	TTGACGTGGG	TCATTAGACT	GGTTCTCCAA	GTAATCACTG	AGTAGCAATT	1440
(	CATTGAAGGT	TGACGGTGCT	TCAACATAGT	AGGTCGACAT	ATGGGCATTG	AAGTAACTTT	1500

GATGATTGTC	TGAAAAGATG	AATTGACCAG	AATGCCCGAT	TTCATGAATC	AAGGTATAGA	1560
CATCGCTCAA	ACGGCCTGTC	CAGCTCATGA	GTACATAAGG	GTGTACGCGA	TATGGGTCCG	1620
CCGCATAACC	ACCGGAATCC	TTGCCACTGT	TAGCAGCAAA	GTCCACCCAG	CGCTCTTCTT	1680
GGTAACGAGC	AACTTCCTGA	CAATATTCTT	GCCCCAAAGG	TTCTACCGAC	TTCATGACCA	1740
AATCATAGGC	ATCGTCAATA	GTCACTTCAG	GATTCAGGGC	GCTGTCCAAG	TCCAATTTCC	1800
AGTCTGCAAA	GGTCATCTTT	TCAAGACCAT	TTACCTTGGC	AACATGCTTG	AGGTATCTCT	1860
GAGCGACTGG	TGCAAAGTCC	TTCATGATGA	GGTCAATCTG	GCGGTCAAAC	ATGACACGGT	1920
CCACTTCTTG	TTCAGCTAGA	AGATAGTCAA	AGACAGAGTC	GTATCCCTTC	ATATCAGCCA	1980
AGAGTTTTTC	AGACTTGACC	TGAGCCAGAT	AGGCTGCTGC	AGCCGTATTT	TGGTGCTTAC	2040
GAAGTCCCTC	TGAGAAGGAA	CGGAAGGATT	TCTCACGAAC	CTCAGCATCC	TCATGGTTTT	2100
GGTAGAAAT"T	CTCATAGGTC	ACAAAGCTGT	TTTTGTAGGT	CTTGCCATGG	GCTTCAAAGT	2160
CAGCCATTTC	AAAATCCCCA	GCTCGCATCT	TAGTATAAAT	GTCCTGCGGA	CTGTAGAAAA	2220
CTTCACCGAG	ATTTGTCAAG	GCCTTCTCCA	CATCTGCCCC	TAAGTAGTGG	GCTTTTTTGA	2280
TTTTAGCCTG	ACGAATGGCA	GCTGTTAAAT	GTGGCAATTT	ACCCAAACGG	TCCAAGACTT	2340
CCTCATCTGC	TGCCACCAAG	GCATCGTCAA	AGAAGGTCAA	GGCTACGCTG	GCATCTGTTT	2400
CAAATTCCAT	CCCAGCTTGG	GCAATATTGG	CAAATTCGTC	ATTGCTATAG	TCCGTCGTCT	2460
GAGGCATAAA	ACCATAGTTG	CCAATATGGC	TCATCTGAAT	GTAGATCTGT	TCCAATTCCG	2520
CAAAGGCCTT	CTCGAAATCC	TCAAAAGTGT	GAAGATTGCC	CTTGTAATCA	CGGCTAAACT	2580
GGTTGATGTC	TTCGCGAGCT	TTCTCGATTG	CACGCAAGAA	ATCCTCACGG	TCTTGGTATA	2640
GGGCTGTTAA	GTCCCAGAGT	TCCTTCTCTG	GAAATTCTGA	ACGGTGTTTT	TGTTCCATTT	2700
TCTTCCTCTT	ATTTCTCTAA	TTCTACTAAA	ACACTAAGGG	CTGATAAAGC	GTAAAGCGGT	2760
GCTGTTTCTG	CTCGCAAAAT	ACGAGGACCT	AGGCCTGCCA	AAACGGCTCC	TTTAGCTTCA	2820
AAACTTTCGA	TTTCTGCAGG	TGAGAGACCG	CCTTCTGGAC	CAAAGATAAA	GAGCAGTTTG	2880
GCTCCTGTTT	CAAGACCAGT	GACTGCTTGC	AGAAGCGCAG	CGGCTTCTCC	TTCTTTAGCT	2940
GATTCTTCAT	AGGCTACTAT	GATAGAGTCA	AACTGGTCCA	GCTGAGCTAG	AAAATCTGCT	3000
TTTTTCTCGA	AAAGTTTAAT	ACTTGGTACA	ATATTACGCT	TGCTTTGCTC	GGCTGCTCCA	3060
AGGGCAATTT	TTTCTAGTTT	TTCAACTTTT	TTACCCAATT	TCTTGCCATC	CCACTTGGCA	3120
ACTGACCAGT	CTGCAGGAAA	GGCCCAGATT	TGGCTAGCCC	CCAGTTCGGT	TACTTTTTGA	3180
GCGATGAACT	CCAGCTTGTC	TCCCTTGGGA	AATCCAGATG	CGATGGTCAC	TTGGACTGGT	3240

892 AGTTCCACAT TGTCATTTAA TTCTTGGACC AACTCAAACT GACGATTTTC CATATCCAGC 3300 ACGCGCCCA AGCGCTTGAT GCCATCATCA AAGACTAAGG TAACCTCATC CTCTTCTTTC 3360 AAGCGCATAA CCTGAAACAT ATGCTTACTG GTTTCCTTGT CCTCGATAGT GACAGGAGAG 3420 ATAGCACTGC CTTTTACAAA ATACTGCTGC ATGCTAGCCT CCAATCACAC CAGAGATATC 3480 CTTGGTTTTC TTAAAGACAC AGGTATTCCA TTCCCCTTGA ACCATGTGAG TTTCGAGGAA 3540 AAATCCAGCT GACTCAGCCG ACTGGCGCAC CATGTCCAAC TTGTCCTTGA TAATGCCACT 3600 CATGATCAGG TAGCCTTCAT CCTTTACCAA GCGATAAGCA TCGTCTATTA GATGAATGAG 3660 GATATCCGCC AAGATATTAG CCACAATCAC ATCTGCCTCA ATTTCCACAC CCTTAAGCAA 3720 ATCTCCAGCC GCTACATGGA TATTTTCCAT GCCAGGGTTG AGCTCAATAT TTTCCTGAGC 3780 CACACGAACC GCCACATCAT CCAGGTCATA GGCGAAAATT TCTTTAGCCC CCAGAAGCGA 3840 GCTGGCAATA GAGAGAACCC CTGAACCAGT CCCCACATCT AGCACCGTTT CGCCACCACG 3900 AAGAACCTGT TCCAAGGCAA AAAGGCTCAT CTTGGTAGTT GGGTGGGTTC CAGTACCAAA 3960 AGCCATGCCA GGATCCAGCT TGATAATCAT TTCCCCCGCA GTCGCCTCAT AGTCTGTCCA 4020 AGAGGGAACG ATGGTCAAAT CATGAGTGAT ACGAGCAGGT TCATAGTATT TCTTCCAGTT 4080 GTCTGCCCAG TCTTCCTCAG CCAAGGCAGT CGTACCTATT TTTAACTCTC CCAAATCCAT 4140 AAAATCTGTC AATTCTGCTA GACGAGCCTG CAAATCCGCC TCAACCACTG TCACATCCAC 4200 CGTGTCAGGG TAGTAGGCTG TCACTACGAT TTCTTCTTGC TGCTCCACCT CTGGGAAAAT 4260 CTCTCCAAAG CGGTCCACAT TTCCCACATA GTCCATACTG TCTTCGATTG CGACTCCTTG 4320 CGCTCCCAGC TCAATCAAGA GATTGGAAAC CAACTCCTCT CCCTCACGCT TCACTGTAAC 4380 TTTTAACTCT TGCCATGTTT CCATTATTAA TACCAAGCCC GTAAAACACA AAACCAAAAT 4440 AGGAAATTCT CTGAAGACGC TTGTGTCTAA GAGAAGTTTA TCTTTTTGGC ACAGTGTTTA 4500 GGGCGGGTTC AGTTTAGAAA TGTAACTGAA CCATCCTTTC TAATCACTTA CTTTTAAATA 4560 ATCTTTTAAT CTCTCTTGCA ACTGAGGCAC AACTTGACTG GAACTAAGAA ATTCCTCAAC 4620 ATTCATCAGC TGATAGCCCT GTCCTTCATC TCCGAAGATG ATATTGTCAA ATTGTTCTTG 4680 TCTTAGCTGA CCAACCATAA AGACCGATTT CTTGCCTTTA AAAATTACGC TAGGATAAAT 4740 CTTGCTCCAA AGCAGACAGT CTTCATCTAA ATGAATTCCC AGTTCCTCAT AAACTTCACG 4800 CCGAGCGCAT TCAAAAGGGC TTTCGTCCCC TTCACGGCCA CCACCTGGCA GTTCCCACAT 4860 ATTGGCCCAG GGAATACTTG CCTTATCATC GCGTAAGATA GTCAAAAGCT TATCCCCACA 4920 AAACAAAGCA ATCTTGCAAC CTGTGAAATC AGAAATTTCT AGTTCCATCT TCAGTTCCTT 4980 CTAACATTTC CTTTTCCAGC TCGGCTAACC AGTTTTCATA ATATCTTTTC TCATCCCTCA 5040

ACATTCGACT	ACTATCCATT	TTCTGTCTAG	CAATCTTGAG	AGCCTTACGA	GTTCGATCTA	5100
CATCTTTCTT	CACCTTTAAT	TGATACCAGG	CTTGTATCAC	TTGAAGATTG	GACAGTTTGA	5160
GAGACAGAAA	CGATTTGACC	TGTCGAATAC	TAGCATATTG	CTCCGCTTGC	TCAAAATCTC	5220
CTTCCAACAA	GGCGATATGA	AGCAGGGATA	GTTGGGCAAC	TGTCTGCATC	ATCGGAGTAG	5280
TTGTCCTCTC	AAGTAATGCT	TGAAACTGCT	GTTTAGCTAC	TTCTTCCTTC	CCTTCCAAAA	5340
TGGAAACTTC	ACCTTGCATA	CCTAATACAC	CATCCGCAAA	ACTCCCTCGT	GCATCCTCAG	5400
GAACTGCTTG	AACAAAGTCT	TTCAAATCAT	ATTCTTGAGG	AGCTAGCAAG	GTCTGGGCAG	5460
AATGTCTCAA	TACCAGGTAG	GCGTATTTGG	TATTTTCAGG	GTGTTGTAGT	AATTCCCAAA	5520
TTTTTGCTCC	ATCGGTGATG	TCGACTGGCA	AAATGTTATT	TAGGAAGAAA	GATAAATTAA	5580
GAAAAATCCA	AGTCCCTGCA	AAATACCAGC	TTCTTGTCAA	AAATCCAAAC	AATATCGCCA	5640
ATAATATCAA	GCCGAGATGA	ACCATCAAGC	CTCCTGAAAG	CATCAGGATG	ATTCTTTGAT	5700
CGCTTTCATC	CTCTTTTAAA	CCAATGTATT	GAGCACCAAC	ATTTTTCAGA	ATGGCTGTTC	5760
TACTAAGATG	AAACCTGCCT	GACTTTTTGG	TCAAAATAAA	ATGTCCTAAT	CCAAAAGCCA	5820
CCAGCCGATA	GCCTGTCAAG	TAGCCACAAA	AAGCATGACC	CAGCTCATGA	AGAATAAAGA	5880
TTAAATACAT	GCTTAGAAGA	GCGAAGGCAT	AACCAAAAGT	AAAGGCTAAA	ACTGCGGAAT	5940
ACCCCAACTC	TGCAAATGCG	ATTGTTCCAC	AAGCAAAAGC	TAGCATAATA	AAGACAACAG	6000
CTAGCACATA	AACCAAATAA	GTCCCAATTT	TCTTCATAAC	ACCTCCAACC	AACTCCTAGT	6060
ATCTTGGATA	AGGATAAAAT	TCTCCCTTTT	CCAAGCCAAT	TTTTCCTTCT	TCAAAGACTT	6120
CTTGGTTCCA	TTCCATGACA	AATTCCTCTG	CTTCTGGGTC	TTCCAAAAAG	TCCATGAGGA	6180
CATCTAGCCC	AACCTCAGCA	GTATCTTTAA	GGAAAAGCGC	AAAATAAGCT	AAAAATTCAC	6240
GGGAAAATCC	TTTTTTAGGC	AGGTAAGGAA	TAACAGTCAA	ATAGTCTTCC	TCATTGACTG	6300
TTGACTTGGC	AGGATTGTAG	AAAAGGACCG	CTTCCTCAAA	AAGAATGTCA	TCTGATGAAA	6360
CCTCTCCGTC	TTCATCCACC	ATCTCCACAC	CGCAGCATTT	TGCGCTTCCA	ATAGAAAACT	6420
CACTTCTACC	GCATGGTTGC	GTTTGTCCCA	GCTAATCTCA	AAGTCAAAGG	GAAAGTTCTT	6480
GTCCAACTCT	TCCTCTAAAA	TATCTAAAAA	TCCGTATGTT	GCCATTTTGT	CCTCTTTCTA	6540
TGCGACTCTT	TAATCGCCCC	GATTGCTCGG	AAATATGCTA	AAATAGATAC	TACCATCTTA	6600
CCACAAAATT	ATTTTATGTC	CTAATTATAC	CATATTACCT	CATTTAAACC	CTTGGTATCA	6660
GTGATTTTCT	TAAAAGTCTG	ATTTCTTCAT	TTCTCATAAA	AATCAATATA	AAAAGCCCTC	6720
GAAAGGGCTA	ATAAATCTAT	AAAATCAATA	GGCGAGTAAC	TAGCACAAGT	GGACGTGCTT	6780

TTTTATTGAC	TATTACCACG	ATACCACGCT	894 TAATCTTAGG	CTTGAACTTT	CTTATCTGCA	6840
ATAGCGTCTG	TCAAAGTCTG	AGAAAAGTTA	AGCCCCATTT	CTCGTCCCAA	CTTATCTGCC	6900
CATTTTGGTA	TGGTCAAAGT	CTTTTTAATG	GGTTCCTGAC	TTCCTAGGTA	TTCTGATACA	6960
TCAACAGATA	CCATAGAAAT	AAAAGATTTA	TCAAGGTCAT	AGGTTGACAC	GAAATCTTCA	7020
TCATCTTTAA	AAGGATCATT	АТСААТТААА	GACAAGCTAT	TGATATCTGA	TGGCTGAGGT	7080
AACTCTCCAT	CACTCTCTAT	CAAATCTGCA	ACAGTTATCC	CTAGCCACTC	CGACCCCATA	7140
GCCAAAGCCT	CAGAAATCCC	CTCTCCTTGT	GTAGCTGAGT	ATTCAAAATC	TGGGAAATGG	7200
ACAAAATAAG	TCGCTTCTGT	TCCGTCTGTG	TCGTCATAAT	AAAATAAAGC	TGGATACGTA	7260
ACTAACATTT	CACTACCTCC	ATATCAAAAA	GCAGGGACTG	AATTTTACAA	CCCAGCTTGC	7320
TTTCTTATCC	CTCTTTCAGT	GTACTTATTC	AGCTCACCAT	GAAGGATTGT	GATAGGTCTT	7380
TCCCCTTGCT	TTTCCATTTT	AATATGGGAG	CCTTTACCGC	CTCTAGTCTT	TATCCAACCA	7440
TGGGCCGTAA	GGAGTTTAAC	CATCTCTTTT	TGTGTCATAG	GCATAGCGCT	TTTACCTCCT	7500
GACAACACCA	TTATAACACG	TGTTACACGT	ATTGTAAAGG	AGTGATACTT	ATTATTCTAT	7560
TATACATAAA	AGCCCCTAGA	TGTGGTTCTA	AGGGAAGCCA	ATTTATTCAT	ACCTATTTT	7620
CTAATGAGTA	GTAAAAACTG	CTTCTTTATC	GAGCAATTCA	TCATCTGTAT	AGTCAATTGT	7680
AAAAGTATCT	CGATCTAAGA	CAGATTGAGG	CGGAGTTGAA	TGAATCATAG	GAACACTGCG	7740
ТАСТСТАТАТ	TTTTTATCTC	CAATTTTTAC	AAACTGATAC	TCTTCGAAAA	TCAAATTCAA	7800
ACCACGTCAA	CGTCGCCTTA	CCGTACTCAA	GTACAGcCTG	CGGCTAGTTT	CCTAGTTTGC	7860
TCTTTGATTT	TCATTGAGTA	TGATTAACTC	TCAAGTCTTC	GAAATCAGGA	TTTTCAACAG	7920
TTATTACAAG	GAGGCGATTT	ACTACTTCAA	AAACATCAAT	TATTCTATTT	TTCATATTTT	7980
TTCAACCCAT	TATTAGAATG	AACTTCTTGG	TAAGCAAAAT	CAAGTTTAGA	TTTAATGTTT	8040
TCGTACAAAT	CTAAAATCTC	TTTTGGAGTA	TCTTCCCGGA	AGAAAAGTTT	TCTTTTCCCT	8100
GAAATAACTT	GATCACTAAG	AATCCAATGA	CGAATTTGTT	TTGTAAAAAT	CAAAATTTCC	8160
TGACTTGGTA	GTTCCATCAT	TTCCATTGCT	TATCACCTCT	CTTTTCATTA	TAGTTCATAC	8220
AATGACATTC	AGCAATATTA	TTTCTCAAGT	CAGCACTTCC	ACTTCTTTAG	GCTCAACTAT	8280
CCTATTTTGA	GCTTTAAGGA	AAATCAAATC	TCTCATGCTG	ATACCTCTCC	TCATTAAATT	8340
AAATAGTAAA	AAAGATTCTA	TCTCACTCCC	TGATTATTAC	AAAACCATTG	AAATATCACA	8400
ACTAATAGGC	TAGAATGGAC	ATAGTAAGAT	ATAGTAGATG	AGTCATTCTA	CTCAAATCCA	8460
CGTTAGAAAG	GACTGCTATG	CCAGACAATC	TCGCCGTTCG	CATGCGCCCn	GG	8512
(0)						

<sup>(2)</sup> INFORMATION FOR SEQ ID NO: 130:

895

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 2869 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 130:

CTCGTTTCAA GGTTGAGTCT	CTTGCAAATC	TTGTTCGCGT	TCTTCCTTTT	GCCAAGGCAT	60
CTCTCCCATG GTTGGTGCcA	GCCATTGTTG	GAATCTTGCT	CTCATTGGTT	CTACCAAACA	120
AGCAAGAAAG CGATGTTTTT	GAAATGGAAT	AATCACTTAA	ATCACTTTTG	TAGCCAAGTC	180
TACAGGAGTG ATTKTCTTTT	TTTATCCGAT	GATAAATGTG	TTATAATAGG	TAGCGAAAGA	240
GGTGAAGAAA TGAATCAAAC	AGTAGAATAT	ATCAAAGAAC	TGACAGCCAT	TGCGtCGCCA	300
ACAGGCTTTA CTCGTGAGAT	TGCGGACTAT	TTAGTCAAGA	CTCTAGAAGG	TTTTGGTTAC	360
CAGCCGGTTC GCACATCCAA	GGGCGGTGTC	AATGTAACTA	TTAAAGGTCA	AAATGATGAG	420
CAACATCGCT ATGTGACTGC	CCATGTAGAT	ACGCTTGGTG	CTATTGTCCG	TGCTGTCAAA	480
CCAGACGGCC GTCTCAAAAT	GGACCGTATC	GGTGGCTTTC	CTTGGAACAT	GATTGAAGGA	540
GAAAACTGTA CCATTCATGT	GGCTAGCACA	GGTGAAAAAG	TATCAGGAAC	CATCCTCATC	600
CACCAAACTT CTTGCCATGT	CTATAAGGAT	GCAGGAACTG	CAGAACGCAC	GCAAGACAAT	660
ATGGAAGTGC GTTTGGACGC	CAAAGTAACT	AGTGAAAAAG	AAACTCGTGC	TCTTGGCATT	720
GAGGTCGGTG ATTTTATCAG	TTTTGACCCA	CGAACTGTCG	TGACAGAGAC	AGGTTTTATC	780
AAGTCTCGCC ATTTGGATGA	CAAGGTCAGT	GCGGCGATTT	TGCTCAATCT	CCTTCGCATT	840
TATAAGGAAG AGAAGATTGA	ATTGCCCGTA	ACAACTCATT	TTGCTTTTTC	AGTCTTTGAA	900
GAAGTGGGAC ACGGTGCAAA	CTCTAACATT	CCTGCTCAGG	TAGTAGAATA	TCTGGCTGTG	960
GATATGGGAG CCATGGGAGA	TGACCAGCAA	ACAGACGAAT	ATACAGTGTC	TATCTGTGTC	1020
AAGGATGCTT CTGGACCTTA	TCACTATGAC	TTCCGTCAAC	ATTTGGTGGC	TTTGGCGAAA	1080
GAGCAAGATA TTCCATTTAA	GCTGGATATC	TATCCATTTT	ATGGTTCGGA	CGCTTCAGCG	1140
GCTATGTCTG CAGGGGCAGA	AGTCAAACAC	GCCCTTCTCG	GTGCTGGTAT	AGAGTCTAGC	1200
CATTCCTATG AGCGTACCCA	TATTGACTCG	GTGATCGCAA	CAGAACGAAT	GGTCGATGCT	1260
TATCTTAAGA GCACGTTGGT	GGACTAATAT	GTGCCTTATT	TGTCAGAGAA	TTGACCTCAT	1320
CAAGAAGGAA GAAAATCCTT	ACTTTGTCAA	AGAGTTGGAA	ACAGGCTATC	TTGTGGTTGG	1380
AGACCACCAG TATTTTGAAG	GCTATAGTCT	CTTTCTAGCC	AAGGAGCATG	TCAGCGAATT	1440

			896			
GCACCATTTG	AAAAAGGAGA	CAAGACTCCG	TTTTCTAGAA	GAAATGAGTT	TAGTCCAAGA	1500
GGCAGTTGCC	AAGGCCTTTG	CTGCTGAGAA	AATGAATATC	GAACTGCTAG	GAAATGGCGA	1560
TGCTCATCTT	CATTGGCATC	TGTTTCCACG	ACGGACAGGT	GATATGAATG	GTCATGGTCT	1620
CAAGGGTCGT	GGACCAGTCT	GGTGGGTTCC	CTTTGAAGAA	ATGACAGCAG	AAACCTGCCA	1680
AGCAAAACCG	GATGAGATTA	AAAGATTAGT	CAAACGTTTA	TCGTCAGAAG	TAGATAAACT	1740
ATTAGAAATA	AAGGAGTAGA	AATGAAGAAA	AGATACCTAG	TCTTGACAGC	TTTGCTAGCC	1800
TTGAGTCTAG	CAGCTTGTTC	ACAAGAAAAA	ACAAAAAATG	AAGATGGAGA	AACTAAGACA	1860
GAACAGACAG	CCAAAGCTGA	TGGAACAGTC	GGTAGTAAGT	CTCAAGGAGC	TGCCCAGAAG	1920
AAAGCAGAAG	TGGTCAATAA	AGGTGATTAC	TACAGCATTC	AAGGGAAATA	CGATGAAATC	1980
ATCGTAGCCA	ACAAACACTA	TCCATTGTCT	AAAGACTATA	ATCCAGGGGA	AAATCCAACA	2040
GCCAAGGCAG	AGTTGGTCAA	ACTCATCAAA	GCGATGCAAG	AGGCAGGTTT	CCCTATTAGT	2100
GATCATTACA	GTGGTTTTAG	AAGTTATGAA	ACTCAGACCA	AGCTCTATCA	AGATTATGTC	2160
AACCAAGATG	GAAAGGCAGC	AGCTGACCGT	TACTCTGCCC	GTCCTGGCTA	TAGCGAACAC	2220
CAGACAGGCT	TGGCCTTTGA	TGTGATTGGG	ACTGATGGTG	ATTTGGTGAC	AGAAGAAAAA	2280
GCAGCCCAAT	GGCTCTTGGA	TCATGCAGCT	GATTATGGCT	TTGTTGTCCG	TTATCTCAAA	2340
GGCAAGGAAA	AGGAAACAGG	CTATATGGCT	GAAGAATGGC	ACCTGCGTTA	TGTAGGAAAA	2400
GAAGCTAAAG	AAATTGCTGC	AAGTGGTCTC	AGTTTGGAAG	AATACTATGG	CTTTGAAGGC	2460
GGAGACTACG	TCGATTAATA	CTCTTCGAAA	ATCTCTTCAA	ACCACGTCAG	CGTCGCCTTA	2520
CCTACTGACT	GCGTCGGTTC	TATTCACAAC	CTCAAAACAG	TGTTTTGAGT	CGATTCGTCA	2580
GTTTTATCTG	CAACCTCAAA	GCTGTACTTT	GAGCAstGCG	GCTAGCTTCC	TAGTTTGCTC	2640
TTTGATTTTC	ATTGAGTACA	AAAAGTAAAC	TTTTCTCTTG	CAATTCCAGA	TAAATAGTGT	2700
ATAATGGATG	GGTATGTGAA	AAACATACTT	GTGGGAGGTA	ААААТСТСТА	ATTACCGCCA	2760
AAACCACAAA	GGAGGATTTA	AAAATGGCTA	AAAAAGTCGA	AAAACTTGTA	AAATTGCAAA	2820
TCCCTGCTGG	TAAAGCTACA	CCAGCTCCAC	CGGTTGGACC	TGCTCTTGG		2869

## (2) INFORMATION FOR SEQ ID NO: 131:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 6186 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 131:

CTGAATCCCT	TATAGGAGTC	CAGTAACTTT	TTAGCCTCTA	CTTTGCCTTC	ATAGGCAGCT	60
TCAACATCAT	TAAAAAAAGA	Argcactgaa	GCAAGTTCTT	CAGTGCTCCA	CGACAAATCT	120
AGTGGGTAAC	TATACTGTTT	GTTCATTAAC	TAATACCAGC	TCTCATTCTT	GCTTCTTTTA	180
GTTCTTGCTT	ACGATAACTA	CGAGGGAGAA	AAGCACGAAT	CTCATCTTCA	TTAAAACCGA	240
TTTGCATACG	CTTGGCATCA	ATAATAATTG	GACGACGCAA	AAGACTAGGA	TACTGCTCAA	300
TCAAATGAAG	CAATTCCGAT	ACCGAAATAC	TCTCTACATC	AATATTCAAT	TTTTGAAAAA	360
TTTTTGAACG	AGTTGAAATG	ATGTCATCAG	TACCATTTTC	GGTCAAGGAA	AGGATGTGTT	420
GCAATTCTTT	TCTTGTTAAA	GGACTGGTCA	TAATATTGTG	TTCCACAAAG	GGAACTTATG	480
TTTTTCTAAC	CAGGCCTTAG	CCTTACGACA	TGATGTACAG	CTCGGTGATA	GAAATAGTGT	540
AATCATGCTT	TTCTCTTCTT	ATCTATACTT	TGCTACTTCT	АТТАТАСААА	AAAATAAAGC	600
GCTTGACTAG	GGATTTTTAG	AAAAAAAGCC	TATTTTTCA	AGAAAAATAG	GCTTTTTGCG	660
AACGATTGAC	ACAATTGGAT	TTGGTTAATT	CACTCTTAAC	GATGGTTTTA	AACGATATAT	720
ATTTTTATAT	ATGTAAATTA	AAAACATCTT	TCCTTTCACT	TCCTACGACT	TTTCAGATAC	780
AGATAGCCAA	AGAAGTTTTC	ATAGAGGGCA	AAAAAGAGGA	GGAAGGCATG	AAGAAAGAAG	840
GTCTCTGGCA	AAATCATAAT	AACAGGATCC	TTGGCTGGAT	CAAAAAGCCA	GGTATCATCT	900
CCCACAAAGA	GAATTTGATG	GAAAAGAGTA	AAGAATTGGT	CAAAACCAAT	CAAAACTCCC	960
CCAAGTCCAA	TCATCACAGG	TAAGACTACT	AGAGCCAGGA	GACTTTTTCG	ATAAAGAGAC	1020
AAAAAGTCCT	TTTTCACAAT	CCTATTGACA	AAGACATAGA	AACTTGGCAG	TGTCACTAGA	1080
GCTACTAGCT	GAACCAAATG	AAAGAGATTC	TTGACCACTG	CGAAATGGTG	CAGACCAGCT	1140
GCTGACGAAC	GAAAATCAGG	CATCTGTAAG	ACCTGACTAA	AAGGATTGGT	CAGATAATTC	1200
ATCAAGATAT	GAAAATTGTA	TTGAATGGTT	TCTGGTTTTA	GATAGACTCG	ATTCGTTAAG	1260
TTTAGCCACT	GAATCTCCAT	AGGATAGAAA	ATCCAAGCCA	GATAAATGGT	CAGAAGGATG	1320
GAGAGGGAGA	GGAGAAAGAG	CATAGAGCCC	CAAAAGATCA	ATTTAGTTTT	CATCAAAATC	1380
CCACTCCGCA	AGGCTAGAAA	CCACATGTGT	CGGTGCGATT	GGCAGGCCAG	CTACTTCTTC	1440
TGCCTTAGTA	AAACCTGTCG	TCACCAAGAG	CGTTGGAATG	CCATTGTCAA	TCCCAGCCCG	1500
AATATCAGTC	AAATAATTGT	CCCCAACCAT	GATTAACTCT	TCACGTTCCA	AACCTAAGTG	1560
CTCAACCGCC	TTGTCCATAA	TGATGGCATT	TGGTTTTCCG	ATATAAACCG	GCTTCACTCG	1620
TGTCGCTACT	TCAAGCAGCG	TAATCAGTGA	GCCAGCACCT	GGCAAAAGAC	CGCGTTCCGT	1680
CGGGATGTTG	AGGTCAGGAT	TGGTTCCGAT	AAAATGGGCA	CCCTTTTGAA	TAGCAAGAGT	1740

TGCTGTGGCA	AATTTTTCAT	AGTCGACTTG	898 CCAATCCAGA	CCAACTACCA	CGTAGGCAGG	1800
TTTTTCCTTG	TCTTCCACAT	AACCAGCCGC	CTTGATGGCT	TCCTTGAGTC	CTGCTTCTCC	1860
GACGACATAG	ACGGTCTTTT	CAAGCCCCAA	ATCATTCATA	TAGTCGATGG	TTGCCAAAGT	1920
CGCTGTGTAG	ACAGTCGATA	GGGGCGTATC	GATATTAAAA	TTCTGAGCCA	ACATCTCCTT	1980
AACACTCTCT	GGAGTGCGGG	TTGTATTGTT	GGTTACAAAG	AGATAGGGAA	TGTCCCGCTT	2040
TTGCAATTCA	TGAACAAAAG	TCTCTCCAGC	AGGGATTCGG	TCTTTCCCCT	TATAAATGGT	2100
TCCGTCTAAA	TCAATTAAAT	AGCCTTTATA	TTTCATCTAT	TTCTCCCTAA	GCCTTTTTTA	2160
TTTCTTGCCA	AGTAATGATT	GCTTGGGCAT	TGATAACCCC	ATCACTTGTA	ATTTCATGCT	2220
TGCTTTCCAG	TCCAGTCCGT	TCAACAGCCG	ATGTAATCAC	CCCACCTGGT	CGAACTTCCT	2280
TGACATACTT	GAGGTTGATT	TTCTTGGGAA	TATAGTGGGT	CAAAAAATCC	GCTCCCATGA	2340
CCTCAAAAAT	CCAGTCCAAG	TATTTACTGT	TATTGACATG	ACCATTCATA	TCCAAGTCGT	2400
AAAAACGAAC	ATGGTAATCC	TTGCTGATCG	GTTCTTCCAA	GGACTCATAC	TTCGGTCCAC	2460
GGATAAGTTT	TTTATCAAAA	TCAGACTGGT	AAGGAGCCAC	AATCTCAGGT	TCAACAACAT	2520
GGACTTTTCG	ACTGTCGCGG	TCCATGAGAA	CAAAGGTCGC	CATCATGTGG	ATGAGCTCCT	2580
GCTCCGCTTC	АТТАТАААТА	GTAAAGCGAC	GGTAGCAAAA	AAGTCGATTG	TAGCTCAAGG	2640
CTTCCGTTTC	GATGGTAATT	TCTTCCGCAA	AACGAGGCAA	ACGAACCACC	TCAATATCAT	2700
ATTCTACGAT	AATCCAGACC	AGATTATATT	CTTCCAAAAT	GGCCTTATCA	CTAACTCCCA	2760
GTTCAATCGA	CTGCATCCCT	GAAACTTGCA	GTGACAGCAA	AATCACATCT	GGAAGTTTGA	2820
TATGACCGTT	CATATCAGCC	ATATCAAAAG	GAATTTTCAT	TTTCATTTGA	TAAGTTAAGC	2880
CCATGATCCT	ACTCCAAAAT	AAATCGTTCT	GCTACAGTAT	CTCCCAAAAA	GAGACCTCTC	2940
TTTGTCATGC	GAACGTGGTC	ACCCTCAATC	TGCATGAGGC	CTTGTTGAAC	CAAATCTCTG	3000
ACAATTTCTC	CATAAAGTCC	AGCAAAAGAC	TGTCCAAATT	TTTCCTCAAA	TCGCGCCATG	3060
GAAACCCCGG	ATTTCTTGCG	GAGTCCCAAG	AACATTTCTT	CTTCCATTTG	CTCCTTTTGA	3120
CTCAGGTGAT	CTTCTGTAAT	ACAAGCATTG	CCTTCCTCAA	CCGCACTGAG	ATAATGACGA	3180
ATGGGACCAT	GATTTTTATA	GCGTACTCCA	TTGACATAAC	CAGATGCCCC	TGCACCAATA	3240
CCATAGTATT	CAGCATTGTC	CCAGTACATG	AGATTATGAC	GACTTTCAAA	ACCGGGTTTG	3300
GAGAAATTAG	AAATCTCATA	ATGCTCAAAA	CCCGCTCGCT	CCAGCTCTGC	AATGATGTAC	3360
ТСАААСАТСТ	CCGCTTCTAG	TTCCTCCTTA	GGCAGAGGCA	ATTTCCCACG	TCGCATCCGG	3420
TTCATAAAGA	CCGTATGGTT	TTCTAAAATC	AAACTATACA	AACTCATGTG	GGGAATATCC	3480
AATCCAATGG	CTTTAGCCAC	ATTTTCCTTT	ACTTGCTCCA	TGGTCTGACC	AGGCAGAGCA	3540

TAAATCAAAT	CAATGGAGAT	ATTGTCAAAA	CCAGCCAGTT	TCAGGCGATC	GATATT <b>T</b> TCA	3600
TAAATATCCT	TCTCCAAATG	ACTGCGCCCA	ATCTTTTTCA	ACATCTTATC	ATCAAAGGTC	3660
TGGACACCTA	GCGAAACACG	ATTGACAGCC	GAATTTTTCA	AAACAGCTAT	CTTATCCGCA	3720
TCCAAATCGC	CTGGATTGGC	TTCAATGGTC	AACTCTTCCA	AGACAGACAA	ATCCAAGTTT	3780
TTAGTCAAGC	CATTCAGTAA	CACCTCCAGT	TGCGGAGCCG	ACAGGGCTGT	CGgTGTTCCA	3840
CCACCGATAT	AAAGGGTTGA	CAACTTTTCA	ATATCATAAG	AACGAAACTC	TTCCAGCAGA	3900
TGCTCTAAAT	AGCTGTCGAC	TGGCTGATTT	TTGATGAAGA	CCTTTGAAAA	ATCACAATAA	3960
TAACAAATCT	GGGTACAAAA	TGGGATGTGC	ACATAGGCTG	ACGTTGGTTT	TTTCTGCATA	4020
GTAATTATTA	TACCACAAAG	ACTAGATTCC	AGATAAAAAT	CACCATCCCC	AGATACATAG	4080
TCCGTCCGGA	GATGGTGATG	GTTTATTCTT	CTGTTATATC	AATCACAATC	TCTTCTGAGT	4140
CATCAAGAGC	TTCGGCTTTT	TCTTGCCATT	GCTCCTTGAG	ATTATTTAAT	TGATTTTTTG	4200
ATGCTTCTGT	CGCTTGAAAA	GCATAGGATT	TAGTTTGAGC	AAGTATACTG	TCCACAGTGA	4260
TTTCACCTGA	CTCAACCTGT	TCTTTTGTTT	TCAGAACAAA	ATCTGTAGCC	TGCTCCTTAA	4320
CTTCTGTCAG	TTTTTCACAG	ACTTGCTCCT	TGGCATACTC	CGGATCTTCT	CTCAAATCAT	4380
CTAGAAAATC	TTGAGCCTGA	CTGCAAACTT	GTTTGCCCTT	ATCACTTGTT	AAAAACAAGG	4440
CAAGAGCTGC	ACCTGAAACG	GTTCCTAAAA	GGATTGAGGA	TAATTTACCC	ATAAGGATTC	4500
TCCTTTTTTA	TTTTTTGAAA	AATTTACTTG	CAAGACGAAG	AGCTGACAGA	CTTGCACCAG	4560
TCTTGAGTGT	TTTTGAACCA	GCTGATGAAG	CTTTCTTGCT	CAAGACACGC	GCATGGTCAT	4620
TGAGGTCTGA	AACAGATAGA	GATAAATCTG	CAACAGCACT	GAAGAGTGGA	TCAATCGTAG	4680
CCACCTTGAC	ATTGATATCA	TCTGCCAAGA	CATTGACCTT	AGCCAACAAC	TCATTGGTGT	4740
GATGCAAGGT	CACATCCACA	TCTGAAGTCA	AGGTTTTAAT	CGTCTTTTCT	GTTTCATCGA	4800
TGACACGACC	AAGCTTTTGT	ACAGTAATGA	TCAGATAGAC	CAAAAAGACA	ATCAAAGCTA	4860
GGGCAACAAG	AATATATGCA	ACTTCTAACA	TTTAGTTTTC	CTCCTCTGTA	ATATAGTAAG	4920
GGGCCTTCTT	TCGATTTTGA	TAAATAACGA	TCATTATACC	GAGACCGATA	AGGACAACTG	4980
ACAGCCATTG	GGACACTCGA	AAGCCGAAGA	ACATGAGACT	ATCTGTTCGC	ATACCTTCGA	5040
TAACCATACG	ACCGAAACCA	TACCAAATCA	AGTAAAAGGC	CGTGATATGA	CCTCGTCTGA	5100
GACTCTTCCA	TTTCCGTCTA	AAAATCAGAA	TCAAGGCAAA	GCCAAGCAGA	TTCCATAGAG	5160
ACTCATAAAG	GAAAGTCGGT	TGACGGTAGC	TCCCCTCAAT	ATACATCTGG	TCACGGATAA	5220
AGCCAGGTAG	ATAATCCAGA	TTATCCACTG	TTGCACCATA	AGCTTCTTGG	TTAAAGAAAT	5280

900 TACCCCAACG CCCCAAACTT TGAGCAATCA TAACGCTAGG CGCCGCAATA TCTAGAAAAT 5340 CCCAAGTATT GATGAGTTTA CGGTCAGCAA AGATATAGAG CACAAGAGCC CCAGTTATCA 5400 AACCACCGTA AATGGCCAAA CCACCATTCC AAATGGCAAA AATCTCTCCT AAATTCTGAC 5460 TATAGTAATC AAATCGGAAA ATAACATAGT AGAGACGAGC TCCTAAAATA GCCAAGGGAA 5520 AGGCTACTAA GATAAAATCT AAAATATCGT CTGGTATGAT CTTCTTTCTA GGTGCTTCTT 5580 TCATGGTCAA ATAAACCGCA AGAATCAAGC CTGTCACAAT ACATAAGGCA TACCAACGAA 5640 TGGCTAGGGG TCCTAGTTGA ATAGCAATTG GATCAAGCAT TTTGCACCTC ATTTCGAGCG 5700 ATTAGACTTG TCAGTCGTTC GTCGAACAAA CGGGTCGCAT CAAAGCCCAT TTCCTTGGCA 5760 CGATAATTCA TGGCAGCTGC CTCAATCACA ACAGAGATAT TACGACCTGT TTTAACTGGA 5820 ATACGAATAC GAGGAATGLA CGCCAGAAAC TTCAAGTTCC TCTGCATTAT TTCCAAGACG 5880 ATCAAAGGTC TTATGCGTAT CGTAATTTTC CAAATAGACA GCAAGCTGAA CCTGTGAAGA 5940 ATCCTTGACA GCACTCGCAC CGTAGAGACT CATAACATCG ATAATACCAA CCCCACGAAT 6000 TTCAATCAAG TGTTTCAAAA TTTCAGCTGG TTCACCCCAG AGAGTAATCT CATCCTTGGC 6060 AAAGATATCG ACACGGTCAT CGGCTACCAA ACGGTGACCA CGTTTGACAA GCTCAAGACC 6120 TGTCTCGCTC TTACCAATTC CACTATCTCC CTGAATCAAG ACGCCCATCC CATAAATATC 6180 CATCAA 6186

### (2) INFORMATION FOR SEQ ID NO: 132:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 9541 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 132:

GAAAATCACA	ACCCTTTTTG	CAAAATTTTT	GAGATTATTT	TCACAAACTT	GATTTTTCAA	60
AGTATACTCA	ATAAAAATTA	AAAAAATCCA	CTACGTCAAG	GCGAGGCTAA	TGTGGTTTGA	120
AGAAATTTTC	GAAGAGCGTG	AATGAGTATC	ATCTATAGTA	АААТААААА	ACTGAACAAT	180
TTGGTTGGGG	ACAGCCAAAC	CAATTTCTCA	CAATGTTTCA	GAAACAAGGG	TGTGCTATTC	240
CAATTTCAGC	CTACTATAAC	TGTCATAGAT	TGCTGAAACA	AAGTCTAGGT	AAAAGTCTTC	300
ATAATAAAAA	GACCTCCTAT	CAAGTGTTCA	AAAACTTTGA	TAGGAGGTCT	TGTTTTGTGA	360
AAATATTTAT	CAAATTTTCT	ATACAAGTGA	GCTGTTAGCC	AGGTTCTTTC	TATTCTTTCA	420
ATTTCAATGA	ATGGATTTTT	TACTAATACT	CATAACTGGG	AATTTGTCTG	TGTAAAAATA	480

GCGAGATAGA	TGGTATTTAT	AAAACACTCA	AGACAGCTAG	ACTAATATCA	TTTAAAACAT	540
TATCTTCTTT	TGAGCGACTG	TTGGTTACCA	ACATAGCTAA	ATTTCCTGCA	TTTTCAAATT	600
GATAGGGTTC	TGATTTAGCA	TTCACAACCA	CCAAGAGGTG	TTCTTTGCCG	TGAACTTCAT	660
AGATAAGGTA	GCCGCTATGT	TCAATCGCAG	AATGCACAAA	GACATGATGG	TAAATTTCAT	720
CATAGCTAGA	GTAAGAAAAG	GCACCAGTTT	TTGTCTTCAA	TCGGATGACT	TGACGGATAA	780
ACTCAATACT	GTCTTGACGC	TCATTAATCA	AGTTCCAGTT	CACTTGGTTC	ACACTGTCAG	840
GAGCATTATA	GCTATTCATC	GCACGCTCTC	TATCATCATG	GGTCAACTCA	CCATTTTCAC	900
CAGTCGCAAC	CAGTTTGGTA	CGACCAAATT	CTTGACCGAT	TTCCATAAAG	GCCATCCCCT	960
GCATGAGCAG	ATTCATGGCT	GTGGCAGTTT	CGACCTTGCG	CATGATTTGC	TCTGAACTTT	1020
GGTCTGGATG	AAGGGTTGCC	AATAAATCGT	GAAGATTGTA	ATTGTCATGG	GCTTCTACAT	1080
AGTTAAGCAC	CTGATTTGGA	TGTGTATAGC	TTCCTAATTC	ACGACTTCCT	AGGATTGCTT	1140
TAGCTAGAAT	TGGCTCTGTC	GCAGCACCAC	TGACAAAACC	TGACTTGATA	GCACCATAAA	1200
CTTCTCCCCC	TTTGACAGCA	TCGCGCTGAT	TGTCATTAAA	GAAACCAATA	TTTGGCATCT	1260
GGTAGGCATT	GTCCTTCTTG	GCCTTATCAT	AAGGGGCAAG	ACCTGTTCCC	ATATCCCATC	1320
CTTCTCCATA	GAGGATAATG	TTGGAGTCGA	TTTCATCCAA	GCTTTGACGA	ATCATCTGCA	1380
TGGTCTTGAC	ATCATGAATC	CCCATCAAGT	CAAAACGGAA	GCCGTCAATA	TTATATTCCT	1440
GCACCCAGTA	TAGAAGAGAA	TCAATCATAT	ACTTGCGAAA	CATTTCGTGT	TCACTGGCTG	1500
TTTCATTTCC	AACACCCGTT	CCATTCTGGA	AGGTACCATC	TGGATTCATA	CGATAATAGT	1560
AATCAGGGAC	TGTTGTTTGG	AATGGTGCAT	CAACAACTGA	GAAGGTATGG	TTATAGACTA	1620
CATCCATAAT	GACTCCAATA	CCCGCATCGT	GATAAGCTTG	AACCATCACC	TTCAAATCAC	1680
GAATGACCTG	AGCTGGATCA	TCTGGATTAG	TTGAAAAACT	AGTTTCTGGC	GCGTTATAGT	1740
TTTGTGGATC	ATAACCCCAG	TTGTAGGTTA	CATTTCCATC	CTCATCGTAT	TCTTTATGAC	1800
GGTCTGCAAT	TGGTTGCAAT	TGAACATAAT	TGTAGCCCAG	CTTCTTGATG	TAATCAAAAG	1860
CAGTTGACTG	GCCGTATTGG	TTAACTGTTC	CAGCCTGAGC	AGCACCCAAG	AAAGTTCCTC	1920
GAAGATGTTC	ATCTACACCC	GATGTAGGTG	ATTTAGTCAA	ATCACGAATG	TGCATTTCAC	1980
AGATAACTGC	CTTACATGGA	TTTTCCAAGC	GCCAAGTAGC	CTCCGAACCG	TGCTTAACCT	2040
CGAAGTTTTC	AACTTGCTTT	TCTACATGGC	TCAGAATAGC	TGAACGTTTG	CCATCAGGGC	2100
TGGTCGCGAT	TGTATAAGGA	TCACGTGTCA	GTGTTTGGTG	ATGAGGGAAT	TGGACTTGAT	2160
ACTGATAAGT	CTTACCTACC	AAATCTTCTT	CAACATCCAA	ACTCCAGACA	CCGATTGTAT	2220

TGTCCTTATG	ATTATAAGAG	TAGCTATTGC	902 CTCTTTTCAT	CTCAAAAGTC	TTCCAAACGG	2280
GTGCATCATT	AGCAGCTGAT	TCATAAACGA	CAACTTGCAC	TTCTGTCGCT	GTAGGTGACC	2340
AGAGAGAAAA	ATGAGCCTGA	TTGTCCTCTA	CACGGCAACC	CAATTCTCCT	TGGTAACCCC	2400
AATGATGATC	AAAACTAGCA	CTGTTAATGG	CCTTATCAAA	GGCAAAAGGA	TTTTGATTTT	2460
TATAGAAAGG	ACTGGCAATA	GCAGGATTTT	CAGAGTAATA	AATCCTATCA	TCGCCTTCCA	2520
AAATCCAGAC	CTCTGTTAAT	AGGGGATAGT	GATTAAAACG	GATAGAATAT	TCTTTACTAG	2580
TTTGACCTGT	ATGAACCACA	AAATTCAAGC	TTTCTATAAC	ATGTGAACTT	GGGTGTTCAA	2640
AGCTAAATAA	AGCTCCAAAA	TAATCTTCTT	TGTAGGTTAG	CAAATCAATT	CGTTGATCCT	2700
GACTTTTTAC	AAAGGAGCAA	GTGTCATATT	CTCCATTCTT	ACGATGGTAA	TGAATGCGCA	2760
TAGGGTAGTT	ATACATTTTT	TATTTTTCCT	TTTTACTTTG	TTTCTATTTC	ACTAATAAAT	2820
TTTTGTCAAT	CTCGTCTCAA	TTAACAGACA	TAGTCATATT	CTCTAAACTC	TGTTTTTAAA	2880
CGATCCATTA	CAAACTTTCT	AGCCATGCCT	CATCTCTGAC	CTGGATACCA	AGTTCTTGTG	2940
CTTTTTGCAG	TTTACTTCCA	GCGTCTGCAC	CTACCACGAC	GAGGTCGGTC	TTTTTAGAAA	3000
TACTACCTGT	CACTTTGGCA	CCCAGACTTT	CGAGTTTACT	TTTAGCTTCT	GAGCGCTTGA	3060
GTCGTTCCAA	TTTTCCTGTC	AATACCACGG	TCAAACCTGA	CAAGGCCGCA	TCCGCTACTA	3120
CCGTCTGTCC	TTTATAGTCC	AGATTGACCC	CAGTTTCTTT	CAATTCTCTG	AGCAGAATTT	3180
CAGAGCCTTC	TGTCGCAAAA	TAAGTCTGAA	GACTTTTGGC	AATCACGCCA	CCTAGACTTT	3240
CAATACTAGC	CACTTCCTCT	GAATCTGCCT	GAGACAGATT	TTCAATTGAA	TGGAAATATT	3300
GAAGTAAAAG	CTGACTAACC	TTGCTTCCGA	CATGACGAAT	TCCCAAACCA	AATAAGAGCT	3360
TCTCGGCAGA	ATTTTCCTTT	GATGCTTGGA	TAGCCTGATA	CAGTTTAGCA	GCGGACTTTT	3420
CCTTAACTCC	CTCTAAAAGG	AGGAAATCCT	CTTCTTGCAA	ACGATAAATA	TCCGCCACAT	3480
CCTTGACTAA	ATTAGCAGCA	AAAAGCTTCT	CAACAATAGA	TGGACCAAGG	CCTGTAATAT	3540
TCATAGCATC	ACGAGAAGCA	AAGTGAATCA	AGCCTTCCAT	GATTTGAGCA	GGGCAACGCG	3600
GATTGATACA	ACGTAGGGCC	ACTTCATCTT	CAAAGTGCAA	CAAGTCAGAG	TTACAACTTG	3660
GACAGTTTGT	AGGGATATCT	AGTTTTTCTT	CAGAAACCCG	TTTGGACTCT	ACCACACGTA	3720
AAACGGCAGG	GATGATGTCA	CCAGCCTTAT	ATACAATGAC	CGTATCGTCT	TTTCGGATAT	3780
CTTTTTCAGC	AATATAATCT	ACATTGTGCA	GGGTCGCACG	GCTAACAGTC	GTACCGGCAA	3840
GTTGTACTGG	TGTTAGATTA	GCAGTTGGAG	TTACAACACC	GGTACGGCCA	ACTGTCCAGT	3900
CAACTGATAA	GAGTTGAGCT	TCTTTTTCTT	CGGCAGGGAA	CTTGTAGGCT	ACTGCCCACT	3960
TTGGAGCCTT	AACTGTAAAA	CCAAGTTCTT	CTTGACTTGC	TAGGTCGTTG	ACCTTGATTA	4020

CCACTCCATC	AATATCGTAA	GGCAGATTTT	CCCGTTCCTG	TCCTACTTCT	TGGATAAAAT	4080
TCCAGATTTC	ATCTATGTTT	TCAGCCAAGA	TTCGCTTAGG	ATTGACCACA	AAACCTAGTT	4140
GTTCTAGGTA	CTTCAAACCC	TTTTCTTGGC	TATCACGAGT	TGAAGGGCTG	GCTTCTTGAT	4200
AGAGAAACGT	TGCAAGATTA	CGCTTGGCAA	CTACTGCTGT	ATCCAACTGA	CGCAGAGTTC	4260
CTGCTGCCGC	ATTACGAGGA	TTAGCAAATT	CAGGCTCTCC	ATTTTCTTGG	CGCGCTTGGT	4320
TAACTTGGTC	AAAGGAAGCG	CGTGGCATGT	AACATTCCCC	ACGAACTGTG	ATATCTAGTT	4380
CTTCTGGCAA	AGTCAAAGGG	ATGTCCTTAA	CACGCTTGAG	GTTTTCTGTG	ATATTTTCAC	4440
CAATTGAACC	ATCTCCACGT	GTTACCCCAG	CAACCAAAAT	CCCCTTTTCA	TAAGTCAGCG	4500
AGATAGATAA	GCCATCGATT	TTCAGCTCAC	AAATATAGGT	CGGATGAGCC	ACTTCCTTAC	4560
GAACACGCGC	ATCAAAAGCA	TCTAGCTCCT	CACATGAAAA	AGCATCCTGC	AAACTATAAA	4620
GAGGATACTG	ATGACTGTAT	TTTTCAAAAC	CATCTAAAAC	CTTGCCACCA	ACACGATGAG	4680
TCGGACTGTC	TGCTAGCACT	TGCTCTGGAT	AAGCAGTTTC	TAACTCGACC	AACTCACGGT	4740
AAAGGCGGTC	ATACTCACTG	TCTGAAACCG	AGGGATTATC	GCTGGTATAG	TACTCAGTCG	4800
CATAGCGATT	GAGCAAAGCG	ACTAACTCAT	TCATTCTTTT	ATTCATAAGA	CCATTTTACC	4860
ATAAAACAAG	CCCTCCTCAC	AAACGAGAAG	GGCGGAAAAA	ACACTTAGTT	TGAAATTATT	4920
TTTGAAACTC	AAGCAACCTT	ATATCAATTT	TTCAAAATGA	GTTCGAACAT	ATCCGAGAGC	4980
TAAGAAATAT	AAGGCTACAA	CTCCAAGTCC	AATAATCAAG	AAAGAATAAA	GATGGACACT	5040
TGGCAAGACT	GTCATAAATC	CTTTTGCAAT	AGGCATAAAT	AGAATAGCTA	AGGTAAAAAT	5100
TGTACTCAGT	ACTCTTCCAA	GAAATTCGCT	CTCAACCTTG	GTTTGTACTT	GAGTAAAAAA	5160
GTGAATATTA	AAAATCGTCA	TAAACAATTC	ACAAACTAAA	TTTCCAGAAA	AGGAAAGAAA	5220
AGTTGGAAGT	GGTAATCCCA	TCATAAAAAC	TCCGACACCT	GTCAAAGCCA	GTAAAATCAA	5280
AAGATTATAA	ATATTAGCTT	TAATTTTACT	AGCTAGAAGA	GCCCCAATGA	TGGAACCAAT	5340
AGCCCCCATA	GTTAAAATAC	TTGCATAGGC	TCCTTCTGAC	CCGTAAAGCT	GATTCGAAAA	5400
GGGAAGTAGA	AATTCAAAAG	CTGCAAAAAA	GAAATTAACG	CTGGAAGCTA	CCAGCAAAAG	5460
GAAGAAAATT	TCTTGCTGAT	GCCAGATATA	GTGTAACCCA	TCCTTGATAT	СТАСАААААТ	5520
ATCTCTCCCA	GTAAAAGCCT	TTTTCTCTTG	AACTTTTGCT	TCCTCTTTTG	GAAGGAAAGC	5580
CACTAGAACA	AAAGCAATGA	AAAAAGTCAG	CGAGTCTAGC	AGTAGCGTCA	TATGGAGACT	5640
TGCAAACTGT	AAAACAAGGA	AGGAAAGAAC	AGGAGAGCTA	ACACCTACAA	CCTGCAAAAC	5700
CAGCTCTAAG	CGAGAATTAT	AGATCACAAT	CTCATCTTTC	TCCACCACTT	CAGTTATGAT	5760

			904			
AGCTTTATTG	GCTGTGCGAG	AAAAGGCAAA	AGCAATAGCC	TGCACAATGT	TAGCAACAAT	5820
CAAAGCGCCA	ATCATCCAGC	TATCATTCCT	TATGAAAGAA	ATAGCCAGAC	AAAGAATCCC	5880
ACAAACAAGA	TCTGCCGTCA	TTAAAATCTT	ACGACGAGAA	AAACGGTCTG	AAATAACTCC	5940
GCCAAAGGGA	TTGACGAGAA	TAGATGTGAC	GAGCTCAGAA	ATCTGATACA	TTCCTAAAAC	6000
TGTCTGTCCT	ATAGTCCCCA	TAGAAGCCAA	CCAGACACTA	TTTCCATAAT	CATAGAGCAT	6060
ATTTCCCATT	TTATTGATAG	CCCCACGGCT	AATCAACTGC	ACTGCATAGC	GATTCATATT	6120
AAAGCTCCTC	TCAAATTTTG	AAACTATTGT	ATCAAAACCG	AAAGGAGCTT	TTTATTTTTT	6180
CCCTTATTTG	GGAAAATTAA	CTTTTGACAA	ATTTTTCGTA	GTGTTCCTGA	TAATAGGCTA	6240
CTTGCTCTGG	AAGACCTAAC	ACATCAAAAA	TATGCATGGC	CTCTTGCATC	TGCTTACAGC	6300
CTTCTTTACA	CTGTCCTTTT	TGATATAAGG	CAAAACCTTT	TAAATAATGG	AAAACATTAC	6360
GCTCATAAAG	CTTAATACCT	TTGTCAATAA	TCTTCTCTGT	ATAAGCCTCA	AAATAGTTGG	6420
CATTATAAAA	AGAAGAATGC	TCTAAACAAT	GCTGGTAACA	ATTGAGGGCC	AAAATCAACA	6480
CTAATCTCTT	ATGGCGACTA	ATCTCTTGGT	AAAATTCCTC	CCTCTCCATA	ACTTCTCTAC	6540
CAATCCGAGT	GACATAGTCT	ACATCGTAGA	AACTATAGAG	GTTACCGAAA	AGAATCAACT	6600
CATACATGGT	CCATTCTTCT	GTTTTGAAGA	GATAATCTGC	TACCTTACCC	AAATCATCCT	6660
GCTTCATATC	ATAACTCGCA	TCTCTTTGAC	AAATCAGACC	TTGTAGCAAA	ATCCAGTTCA	6720
GCTCAAAATA	AAGGGGAGTC	GTCGAACTCT	TAGACTTTTC	AAGTTGTTCT	CTTTGAAGCT	6780
TTTGAAAACC	TGCAATATCG	TTTGAATAGT	AAAGTGGGAT	AATCTGTGCC	ATCATAGACA	6840
CATGTTCATG	ATTATGAAAA	TTCCTTGCCT	TATCCATGAA	ATTTTCGATT	GTTACATGAA	6900
TGTTATCCAA	AATCTCAAAG	AAACGGGAGA	CTGCCAGGTC	AGACTCCCCA	AGCTCAAAGC	6960
GAGATAACTG	AGAGGTAGAG	CAGGATTCGC	CTGCTGCTTC	CTTTAAAGAA	TAATTTCCAC	7020
PTGTTCGAAA	TTCACGAAAT	ACTTTTCCAA	GATGTTCCAT	CTTTACACCT	GCTCTGATAA	7080
TTCTTCCCAC	TCAAGCATAG	CTTCTTCCTG	ACGATGGCTG	ATTTTGTCCA	GCTCAGCCTG	7140
PAATTCCATG	AGTTTGTCGG	CATCGTTTGT	TTCCAACATT	TGTTCAGAAA	TGGCTTGGCT	7200
PTGACTTTCT	AGCTCTTCAA	TTTCAGCTTC	TAGACTTTCG	ATTTGTCGCA	TGAGTTTGCG	7260
AACTTCTTTT	TGACTTTCTT	TCTGGGCCTG	ATAGTCATTG	ACTGGACTTG	CTTCCTTTGC	7320
ITGATTGCTA	GTTGAAGCTT	CCTCAGTCTG	ACTCATTTCT	GCTGTTGCTT	TCTTCTCAAC	7380
ATAGTAGTCG	TAATCTCCAA	GGTAGAGAGT	TGAACCATTC	TCAGACAATT	CCAAAACATG	7440
AGTTGCCACA	CGATTGATAA	AGTAACGATC	ATGACTGACA	AACAGCAAGG	TTCCATCAAA	7500
GTCAATCAAG	GCATTTTCTA	GCACTTCCTT	ACTATCAATA	TCCAAGTGGT	TGGTCGGCTC	7560

ΑΤΟΟΑΘΑΑΤΟ	ΔΔΔΔΩΤΤΩΤ	TGTTTTCCAT	ΔαΔαΑΨΨΨΔ	CCTAAAACCA	ልልሮርልርርጥጥጥ	7620
		CGACTGATTT				7680
TCCAAGACGG	TTGCGGATTT	CAACTTCTGG	TGTCAGTTTG	AAATCATTCC	AGAGTTCATC	7740
CAGCACCGTA	TTACTTGGTG	TCAGCTTGCT	TTGGGTTTGG	TCATAGTAAC	CAACCTCAAC	7800
ATTAGCGCCA	AAGCGCTTTT	CTCCCTTGAT	AAAAGGAATC	TGGTCCACAA	TAGACTTGAT	7860
AAAGGTTGAC	TTGCCGATAC	CATTTGGACC	AACGATAGCG	ACAGCATTCA	TCTTACGAAG	7920
ATCTAGGTTA	ATCGGTTGTG	ACAAGACTTC	CCCGTCATAG	CCAACAGCTG	CATTTTCAAC	7980
AGTCAAAACA	ACATTGCCCG	ACGTTTTTTC	AGACTGGAAG	GTCATGTTGG	CTGATTTCTT	8040
GCCAGCTTCA	GGCTTGTCCA	AACGTTCCAT	TTTTTCCAGT	TGTTTACGGC	GAGATTGAGC	8100
ACGTTTAGTC	GTTGAAGCAC	GAACTAGATT	GCGATTGACA	AAGTCTTCCA	GAGCAGCGAT	8160
TTCCTTCTGT	TGCTTTTCAT	AGTTTTTTGC	CTCAGTAACT	AGCTTTTGCT	CCTTCAATTC	8220
GACAAAACGA	GAGTAATTCC	CCACATAGCG	ATCCAAGGAA	TGCTTGGTCA	AATCTAGCGT	8280
AATTGTCGCA	ACCTTGTCCA	AGAAATAACG	GTCGTGGCTG	ACGATAATGA	GGGCACCGCT	8340
ATAGTTTACC	AAGTAATTCT	CTAGCCAGGC	GATGGTTTCA	ATATCCAAGT	GGTTAGTTGG	8400
CTCGTCCAAG	ACCAAGAGAT	TGGGCTTTTC	AAGGAGCATT	TTGGCAAGTG	CCAAACGAGT	8460
ATTTTGACCA	CCAGAAAGCT	CAGCAATTTT	CATCTGCCAC	ATAGACTCGT	CAAACTTGAA	8520
TCCATTCAAA	ATCGCTCGAA	TATCAGCTTC	ATAGGTAAAG	CCACCTGCTT	GGCGAAAATT	8580
CTCAGATAAG	CGGTCATAAT	CTGACATCAG	TTTATCCAAA	TCCTCACCAG	ACTTTTCACC	8640
CATCTCCAGC	TCCATCTGAC	GCAGTTGTCT	CTCCGTCCGA	CGCAAATCAT	TAAAGACATG	8700
AAGCATTTCA	TCGTAGATGG	TATTTTCAGA	CTCAAAACGG	CTATCTTGGG	CTAGGTAAGA	8760
CAGAGAAATA	TCTTTTTTCT	TATTGATTTC	TCCGCTAGTT	GGCTCCTCTT	CTCCAACTAA	8820
AATCTTCAAA	AGAGTAGACT	TACCTGCACC	ATTTTTCCCA	ACAAGAGCAA	TCCGATCTCG	8880
TTCATCAACC	TGCAGGTTGA	TATTATCGAA	AAGAACCTCT	CCTGCAAAAG	AACGTTCAAT	8940
TTTATTAGCT	TGTAAAATAA	TCATACAAGT	AGTATAGCAT	GTTTCCCTAA	GGCATTCAAG	9000
ATAATCGTAA	GTCTTTTAGT	ACAACTTTTA	TAACATAAAA	ТАААСТАААТ	TATGTATATT	9060
TTATATTAGA	TTACTTCACT	ATCTTGTTGG	ATTTTCTAAC	CAGCTAATCT	TGTTTCAAAT	9120
AGTTATCGCA	CAAGTCTATT	ATTTAATTCT	TTTCATCATT	TACGTACGTA	TAGCAGATTG	9180
AAATAAGATG	AGAACAAATC	GATTGGGAAA	GTAAAATTAA	ТТТСТАТААА	TGTTTTAGCA	9240
ATTGTTTCGT	ACTATTTAG	ATTCAGTCTA	СТАТАТАСАА	TATTTTCGGA	ACATTCAACT	9300

			906			
TTTTAACTCT	ATTTATTACT	AGATTTCATA	ATTAAAAAAC	CTACTGACCA	AGCTAGAAAG	9360
CTTGATACAA	TAGGCTTTTT	AAAGACTGAT	TATTTAACAG	CGTCTTTAAG	AGCTTTACCA	9420
GCTTTGAATG	CTGGTACTTT	AGAAGCTGCA	ATTGTCATTT	CTTTACCAGT	TTGTGGGTTG	9480
CGACCTTTAC	GTTCTGCGCG	CTCACGAACT	TCAAAGTTAC	CAAAACCGAT	CAATTGAACT	9540
т						9541

### (2) INFORMATION FOR SEQ ID NO: 133:

### (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 3502 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 133:

TTGACTATCC TATCATGCTT TCTAAGGTCT ACTCAAGAAA ATCATTTCA AGTT	TTTCACA 60
CCTTTCTCAA AAAAGTTAAA AAATTTTCTC AAAAACGCTT GACTCTGACC TAAG	GGCGAAG 120
GGTTATACTA TCATTGTAAG GAGGAAATCA TGTACCATAT AAAAGAAGCT GCGC	CAGCTTT 180
CAGGTGTCTC TGTCAAGACC CTGCATCACT ATGACAAGAT AGGACTCTTG GTCC	CCCTTAA 240
AGTCGGAAAA CGGCTATCGA ACCTACAGTC AAGAGGATTT GGAACGCCTT CAGG	STCATTC 300
TTTACTACAA ATATCTAGGC TTTTCTTTAG AGAAAATAGC AGAGCTGTTA AAGG	GAAGAAA 360
GGACAGATTT ATTGCCCCAT TTGACTAGGC AGTTGGACTA TCTAACTCGC GAAA	AGGCAAC 420
ATCTGGATAC CTTGATTTCC ACCTTGCAAA AAACTATTCA AGAACAAAAA GGAG	GAAAGAA 480
AAATGACCAT TGAGGAAAAA TTCACGGGAT TTAGCTATCA AGACAATCAA AAAT	PACCACC 540
AAGAAGCGGT AGAGAAATAT GGTCAAGAAG TCATGGGACA AGCGCTCGAA CGCC	CAAAAAG 600
GTCACGAAGA CGAGGCTACG GCCGCCTTTA ACCAAGTCTT TCAAACTTTG GCAC	CAAAATC 660
TTCAAGTTGG TTTACCTGCA ACAGCAACCG AAAACCAGGA GCAAGCAGCC AAGC	CTCTTGC 720
AAGCCATTCG CACTTATGGA TTTGACTGCT CTATTGAGGT ATTCGGTCAT ATCG	GGTAAAG 780
GTTACGTCTA CAACCCAGAG TTTAAGGAAA ACATTGACAA GTTTGGTTCT GAAA	ACAGCCC 840
AGTACACGTC AGATGCCATT GCGGTTTACG TTCAGACAAA TGCAGAATAA ATAG	GCTAGG 900
AATTTCCTAG CCTATTTTTT ACTTCAAATC ATAAAGCCAG TCGTCACCGT TTTT	TGTAGTA 960
AAAGAATTCA CTGAGATCTT CTTCTAGAAA CACACGAAGC ATATCAGACA TATC	CATCGGT 1020
TGCAAGTTTT AGATGAGAAA GATTTTCAAA GTCCTCCCAC CAAACTTTCC CTTC	CGTCTGA 1080
AGACTGGAGT TCACCAGTAA AGTGTTCTGT CTTGTAAAAA AGGACGACAT AACG	SATAATC 1140

CTTGTCGTCA	TACCAGTTTT	TGATACCACA	GAGTTGGGGT	TTGGAAATGA	TCAGACCAGT	1200
TTCTTCTTTC	ACTTCACGAA	TGACAGCATC	GACAAAGGAT	TCGCCACGTT	CAACATGACC	1260
ACCAGGAAAA	GTAATGCCAG	ACCAGTCGGG	ATTAACTCGG	TCTTGGACCA	GGACCTTATC	1320
TCCGTTTTTA	ATCATACACA	TGTTAACAAA	TTCGACTGCC	TCTCTTCTGT	TCATTCTTCA	1380
CAACCTTTAA	TCTTTAATCA	TAATGCAGAC	TTCCCGCCAC	CCAGCCGGTA	CAGAGGGCAG	1440
AAGTGATGTT	AAAGCCACCC	GTGTGGGCAT	TGATATCCAT	AACTTCGCCT	GCAAAGTGGA	1500
GGCCAGGTAC	CAGCTTACTT	TCAAGGGTTT	TAGGATTGAT	TTCCTTGAGA	CTGACTCCAC	1560
CCTTGGTAAC	AAAGGACTTT	GCAAGGGACA	TTTTTCCAGT	TACAGGAATT	TTAAGTTCTT	1620
TAATGGACTG	GACAAGTTGT	TCTCGTTCCT	TTTCAGTCAG	TTGTTTGACT	TTTTCAGGAT	1680
ATCCTTGTAC	AAAAAATTCG	GCCAAGCGTT	CTGGTAACAA	GGTTTTTAAA	GCGTTTTTCA	1740
AGGATTTTTC	CCGATTTTCT	TCTAGAAATG	TAACCAAGTC	CTTCTCAGAA	AGTTGAGGCA	1800
AAACATCGAG	TGAGAGAACC	TCCCCACCTT	TGACAAAGCT	AGACATGCGT	AGGGCAGCAG	1860
GACCTGACAA	ACCAAAGTGG	GTAAAGAGTA	AATCATGAGT	GATGACATGC	TTACCATAAC	1920
TTAGGGTCAC	ATCGTCCAGA	GAAATACCTT	GTAAGGCTTT	ATGTGGAAAA	TCTGTTAATA	1980
AAGGACTTTC	AGCAGCCTCA	AGATCGGTGA	TGGTATGCTT	AAAATGGCGA	GCAATCTCGT	2040
GACCAAAACC	AGTCGAACCA	GTCGAAGGAT	AAGACTTACC	ACCTGTTGTG	ACAATGAGTT	2100
TCTCACAAGT	GAAGGTTTGA	TCCGCTGACT	TAAGGACAAA	CTGGTCATCT	ACTTTTTAA	2160
CAGAAACGAT	TTCTATTTGA	GTAGCAACTT	GACCACCTAG	TTCGGTGATT	TTCTTTTCCA	2220
AAGCTTCGAT	AATAGTCCGA	GACTTGTCAC	TGGCTGGAAA	GACGCGTCCG	TGGTCTTCGA	2280
CCTTAAGTTT	AACACCATTT	TCTGTAAAAA	AGTTGATGAT	GTCATGATTA	TCGAACTGGG	2340
AGAAAACACT	GTAAAGAAAG	CGTCCGTTTC	CAGGAATTCC	AGCTAGCAGG	TTGTCTAAGC	2400
TACCATTGTT	GGTCACATTG	CAACGTCCCC	CACCAGTCCC	AGCTAATTTT	TTTCCAAGTT	2460
TCCGATTTTT	TTCGATGAGG	AGGGTTTTCT	GTCCATAAAA	GCTACTGGAA	ATCGTAGCCA	2520
TCATACCAGC	AGGTCCCCCA	CCGATGACAA	TAGTATCAAA	ATGTTTCATA	GCTCTATTGT	2580
ACCACAAAAA	AACAAGAGAT	GATGGTCACC	TCTTGTCAAG	AATGCAATTA	ATCAATTTCA	2640
TAGCCCATCA	GCAAACCGCC	CTCTTCTGCA	TAGAAACTGC	AGAGACCAGA	GGTTGGTAGA	2700
ATTTTAATAT	CCGCTTGTGG	GAAGGTTTCA	CGGATTCGCT	CTGAGAGCTG	TTGACAACAT	2760
TTTTCGTTAT	TGCGTTGGGC	CATGACAATA	CGGCCACCAG	CATATCCAGC	TTTTACTAAC	2820
TCATCATAGG	CAGCTTGAAC	TGATTTCTTT	GATCCCCTTG	CTTTTTGTAG	CAATTCGAGA	2880

			908			
GTCCCAGTTT CA	CTAGCTTT TC	CCGACCATA	CGAATGTTGA	GAAGGCCAAC	GACCGTACCG	2940
ATAAGCTTGC TC	AAACGGCC GT	TTCTTCACC	AAGTTATCGA	CTTTGGCTAG	GACAAAGAGC	3000
AACTTAGTTT TT	TCTTGATA GG	GCGGTGATA	GCTTCAACCA	CTTCTTCAAA	AGACAAGCCC	3060
TGGTCAATCA AG	TCATTCAA TI	TTTTCTACG	AGTAGGTCAA	CTTCACCACC	AGCAGATAAA	3120
СТАТСААТСА СА	TGAATCTT AG	GTGTCAGGA	TGGTCTTCCA	GATAAATATT	CTTTGCTAGT	3180
TGAGCACTAT TG	TGACTGCC AG	GAAAGGGTA	CCTGTGATGG	TTACTAGGAA	AATGTTTTTG	3240
GCACCTTCAA AT	GCTCGCAA AT	PAGTCATCT	GGGCTTGGAC	AAGCCGATTT	TGAAGCTTCT	3300
GCAGTTGCAT AC	ATGGTTTC CA	ATCATTTGG	TCAATATCGA	GACTGGCGTC	ATCAACAAAG	3360
ACCTGATCAG CT	ACTTGAAT GG	GTTAAGGGG	ACACTTACAA	AGGTTGTGTT	AATAGCTGGT	3420
GTTGGCAGTT GA	CGATAATC AC	CAACCAGAG	TCAGCAATAA	TCTTCCAAGT	CATAGAAATT	3480
CTCCATCTTT GT	CAGGAACG AI	r				3502

## (2) INFORMATION FOR SEQ ID NO: 134:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 12665 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 134:

CGATTGATTT	TTTTAAAGCG	TTCGATAGAG	AATGAGAAAC	GAATCCTTAG	CAATGGCGGG	60
AAAGAATTTG	GAGTTGAGAA	TACAAAACGA	TTAACTATGG	CTCATATTGT	TTTTTATCTC	120
TCTTGCTTGG	TTGAGGCAAT	GGTGCACAAG	ACAATTTTTG	ATGGCATGGG	CATGGTTGGT	180
TTAGTCTTGC	TTATTTTTC	TATGCTGATG	TTGATGTTGG	TGATTCACTT	GTTGGGAGAT	240
ATTTGGACAG	TGAAGCTTAT	GCTTGTCAAT	AATCACAAAT	ATGTAGATCA	TATCTTGTTT	300
AGGACAGTAA	AACACCCTAA	TTACTTTTTA	AATATTCTTC	CTGAGTTGAT	TGGCTTGACC	360
TTGTTGAGTC	ATGCTTATGT	GACTTTTGTT	TTAGTTTTTC	CAGTTTATGC	AGTTATTTTG	420
TATCGACGAA	TAGCTGAAGA	GGAAAAGCTA	TTACATGAAG	TTATAATCCC	AAATGGAAGC	480
ATAAAGAGAT	АААТАСАААА	TTCGATTTAT	ATACAGTTCA	TATTGAAGTG	ATATAGTAAG	540
GTTAAAGAAA	AAATATAGAA	GGAAATAAAC	ATGTTTGCAT	CAAAAAGCGA	AAGAAAAGTA	600
CATTATTCAA	TTCGTAAATT	TAGTGTTGGA	GTAGCTAGTG	TAGTTGTTGC	CAGTCTTGTT	660
ATGGGAAGTG	TGGTTCATGC	GACAGAGAAC	GAGGGAGCTA	CCCAAGTACC	CACTTCTTCT	720
AATAGGGCAA	ATGAAAGTCA	GGCAGAACAA	GGAGAACAAC	СТААААААСТ	CGATTCAGAA	780

CGAGATAAGG	CAAGGAAAGA	GGTCGAGGAA	TATGTAAAAA	AAATAGTGGG	TGAGAGCTAT	840
GCAAAATCAA	CTAAAAAGCG	ACATACAATT	ACTGTAGCTC	TAGTTAACGA	GTTGAACAAC	900
ATTAAGAACG	AGTATTTGAA	TAAAATAGTT	GAATCAACCT	CAGAAAGCCA	ACTACAGATA	960
CTGATGATGG	AGAGTCGATC	AAAAGTAGAT	GAAGCTGTGT	CTAAGTTTGA	AAAGGACTCA	1020
TCTTCTTCGT	CAAGTTCAGA	CTCTTCCACT	AAACCGGAAG	CTTCAGATAC	AGCGAAGCCA	1080
AACAAGCCGA	CAGAACCAGG	AGAAAAGGTA	GCAGAAGCTA	AGAAGAAGGT	TGAAGAAGCT	1140
GAGAAAAAAG	CCAAGGATCA	AAAAGAAGAA	GATCGTCGTA	ACTACCCAAC	CATTACTTAC	1200
AAAACGCTTG	AACTTGAAAT	TGCTGAGTCC	GATGTGGAAG	TTAAAAAAGC	GGAGCTTGAA	1260
CTAGTAAAAG	TGAAAGCTAA	CGAACCTCGA	GACGAGCAAA	AAATTAAGCA	AGCAGAAGCG	1320
GAAGTTGAGA	GTAAACAAGC	TGAGGCTACA	AGGTTAAAAA	AAATCAAGAC	AGATCGTGAA	1380
GAAGCAGAAG	AAGAAGCTAA	ACGAAGAGCA	GATGCTAAAG	AGCAAGGTAA	ACCAAAGGGG	1440
CGGGCAAAAC	GAGGAGTTCC	TGGAGAGCTA	GCAACACCTG	ATAAAAAAGA	AAATGATGCG	1500
AAGTCTTCAG	ATTCTAGCGT	AGGTGAAGAA	ACTCTTCCAA	GCCCATCCCT	GAAACCAGAA	1560
AAAAAGGTAG	CAGAAGCTGA	GAAGAAGGTT	GAAGAAGCTA	AGAAAAAAGC	CGAGGATCAA	1620
AAAGAAGAAG	ATCGCCGTAA	CTACCCAACC	AATACTTACA	AAACGCTTGA	ACTTGAAATT	1680
GCTGAGTCCG	ATGTGGAAGT	TAAAAAAGCG	GAGCTTGAAC	TAGTAAAAGA	GGAAGCTAAG	1740
GAACCTCGAA	ACGAGGAAAA	AGTTAAGCAA	GCAAAAGCGG	AAGTTGAGAG	TAAAAAAGCT	1800
GAGGCTACAA	GGTTAGAAAA	AATCAAGACA	GATCGTAAAA	AAGCAGAAGA	AGAAGCTAAA	1860
CGAAAAGCAG	CAGAAGAAGA	TAAAGTTAAA	GAAAAACCAG	CTGAACAACC	ACAACCAGCG	1920
CCGGCTCCAA	AAGCAGAAAA	ACCAGCTCCA	GCTCCAAAAC	CAGAGAATCC	AGCTGAACAA	1980
CCAAAAGCAG	AAAAACCAGC	TGATCAACAA	GCTGAAGAAG	ACTATGCTCG	TAGATCAGAA	2040
GAAGAATATA	ATCGCTTGAC	TCAACAGCAA	CCGCCAAAAA	CTGAAAAACC	AGCACAACCA	2100
TCTACTCCAA	AAACAGGCTG	GAAACAAGAA	AACGGTATGT	GGTACTTCTA	CAATACTGAT	2160
GGTTCAATGG	CGACAGGATG	GCTCCAAAAC	AATGGCTCAT	GGTACTACCT	CAACAGCAAT	2220
GGCGCTATGG	CGACAGGATG	GCTCCAAAAC	AATGGTTCAT	GGTACTATCT	AAACGCTAAT	2280
GGTTCAATGG	CAACAGGATG	GCTCCAAAAC	AATGGTTCAT	GGTACTACCT	AAACGCTAAT	2340
GGTTCAATGG	CGACAGGATG	GCTCCAATAC	AATGGCTCAT	GGTACTACCT	AAACGCTAAT	2400
GGTTCAATGG	CGACAGGATG	GCTCCAATAC	AATGGCTCAT	GGTACTACCT	AAACGCTAAT	2460
GGTGATATGG	CGACAGGTTG	GGTGAAAGAT	GGAGATACCT	GGTACTATCT	TGAAGCATCA	2520

910 GGTGCTATGA AAGCAAGCCA ATGGTTCAAA GTATCAGATA AATGGTACTA TGTCAATGGC 2580 TCAGGTGCCC TTGCAGTCAA CACAACTGTA GATGGCTATG GAGTCAATGC CAATGGTGAA 2640 TGGGTAAACT AAACCTAATA TAACTAGTTA ATACTGACTT CCTGTAAGAA CTCTTTAAAG 2700 TATTCCCTAC AAATACCATA TCCTTTCAGT AGATAATATA CCCTTGTAGG AAGTTTAGAT 2760 TAAAAAATAA CTCTGTAATC TCTAGCCGGA TTTATAGCGC TAGAGACTAC GGAGTTTTTT 2820 TGATGAGGAA AGAATGGCGG CATTCAAGAG GCTCTTTAAG AGAGTTACGG GTTTTAAACT 2880 ATTAAGCCTT CTCCAATTGC AAGAGGGTTT CAATCTCTGC CAGGGTGCTG GCTTGCGAAA 2940 TGGCTCCACG GAGTTTGGCA GCGCCAGATG TTCCACGGAG ATAGTGAGGA GCGAGACCGC 3000 GGAATTCACG AACTGCGACG TTTTCTCCTT TGAGGTTAAT CAATCGTTTC AAGTGTTCGT 3060 AGGCGATCTT CATCTTGTCT TCAAAGGTCA AATCAGGTAG GATTTCTCCT GTTTCAAAGT 3120 AATGGTTGAT TTGGTTGAAG AGGTAAGGAT TTCCCATGGC AGCTCGGCCA ATCATGACTG 3180 CGTCAGCACC AACTTCTTCG ATGCGTTGCT TGGCTTCTTG GACAGTACGG ATATCACCGT 3240 TGGCGATGAA TGGAATCTTG GTTAGAGCTT GGGCAACCTT GTAAAGGGTC TCAAGGTCTG 3300 CGTGGCCAGT ATACATTTGT TCACGGGTAC GGCCATGCAT GGCGAGGGCA GAAACACCTG 3360 CAGCTTCAGC AGCGAGAGCA TTTTCTACTG CAAGAGATGG GTCCGCCCAG CCGGTACGCA 3420 TTTTGACAGT AAGTGGGATA TCAAGGACAG ACTGGACCTT GTTGATGATG GAGTAAATCT 3480 TGTCTGGATC CTTGAGCCAC ATAGCACCAG CTTCGTTCTT CACGATTTTG TTGACAGGGC 3540 AGCCCATGTT GATATCGACG ATATCGGTCT TGGTGTTTTC TTGGATGAAT TCTGCTGCGC 3600 GTGCTAGGCT GTCTTCATCG CTACCAAAAA GTTGGATAGA GACAGGGTTT TCGCCCTCAT 3660 CGATATGAAG CATGTGCAGG GTTTTTTCGT TGTTGTATTG GATTCCCTTG TCAGAGACCA 3720 TTTCCATTAC AACGAGTCCA GCTCCGAGCT CCTTTGCGAT AGTACGAAAG GCTGAGTTGG 3780 TCACGCCAGC CATAGGCGCT AAAACGGTAC GATTGGGAAT CTCAATATTG CCAATCATAA 3840 AAGGTGTATT AAGATTTGTC ACGAATGAGT TCCTCCAGGT CCTTTTCATC AAAGTTGTAA 3900 GTAGTTTGGC AGAATTGACA AGTGATTTCT GCCCCGTGGT CTTCCTCTTT CATTTCCTGT 3960 AAGTCTGAGC TTGGAAGGCT GGCAAGAGCG TTCATAAAGC GTTCATGGCT ACAGTCACAT 4020 TGGAAACGGA TTTCTTCTTC AGAAAGACGC TTGTAGGCTT CGTCCCCGTA GATAGCCTTG 4080 AGGAGGCTT CGATATGGTC GTCGCTTTCG AGAAGAGTAG AGATAGCTGG CATTTCTTGG 4140 ATGCGTTTTT CAAAGCGAGC AATCTCTTCT TTCTTGGCTC CTGGCAAGAC TTGAACTAGG 4200 AAACCACCTG CAACCTTGAC CTTGTCTTCC TCGTCCAAAA GGACATTGAG GCCGACCGCT 4260 GAAGGCGTTT GTTGGCTTTC AGTAAGGTAA AAGGCAAGGT CTTCACCGAT TTCTCCAGAG 4320

ATGAGGGGAG	TTATAGAGTT	GTAAGGATTT	CCAGTACCGT	AGTCTGTGAT	AACGAGGAAT	4380
TGACCATTTC	CAACAAAAGG	TCCGACTAGG	ACTTCACCAG	TCGCAGTCTT	TTTGATGTCA	4440
ACACCAGGAT	TTTGAACATA	GCCTTTGACG	TTCCCCTTGG	TATCAGCGAC	GGTGATAATA	4500
GCACCTAGAG	AGCTAGATCC	CAACACCTTA	ACTGTAAGTT	TGGTATTTCC	TTTTTCATTG	<b>45</b> 60
GCTGCGAGAA	TCTGGCTAGC	GATAAGAGTT	CGACCAAGCG	CTACAGTTGA	GCTAGCTTGG	4620
GTTTGATGTT	TTTCTTGAGC	AGTGCGGACG	GTTTCAGTGC	TATCAAGGAC	AAAAGCACGA	4680
AAGGcTCCGC	TTTCTGATAT	AGTTTTAATA	ATTTTATCCA	TAGCTACTAT	TTTAGCATAA	4740
AAATGCCCAA	AGGGGGAGCC	GTGTGTTTAC	TGATTTTCAG	GATAATGGAC	CAGGAAATCA	4800
GCATGAAAAT	AAAAAGAGAA	ACAGATTATT	TTAGCATTTG	TCAGATTTAT	GCTATGCTTA	4860
AGGTAGAAAA	TGAAAGGGAT	AACAAATGTA	TTTAGGAGAT	TTGATGGAGA	AAGCCGAGTG	4920
TGGTCAATTT	TCAATACTTT	CCTTTCTATT	ACAAGAGTCT	CAGACGACCG	TCAAGGCTGT	4980
AATGGAAGAA	ACAGGATTTT	CAAAAGCAAC	CCTAACCAAA	TATGTCACCC	TGCTCAATGA	5040
CAAGGCTTTG	GATAGTGGCT	TAGAGCTGGC	TATTCACTCA	GAAGATGAAA	ATCTGCGTCT	5100
GTCTATCGGT	GCAGCTACCA	AGGGGAGAGA	TATTCGGAGC	TTGTTTTTGG	AGAGTGCTGT	5160
TAAATACCAG	ATTTTGGTTT	ATCTTCTCTA	CCACCAACAG	TTTTTAGCCC	ATCAGCTGGC	5220
TCAAGAATTG	GTGATTAGCG	AGGCTACGCT	TGGTCGTCAC	TTGGCTGGTT	TAAATCAGAT	5280
TTTGTCAGAA	TTTGATTTAT	CCATCCAAAA	TGGCCGTTGG	CGAGGTCCAG	AGCATCAGAT	5340
TCACTATTTC	TATTTCTGTC	TTTTCCGAAA	GGTCTGGTCG	AGTCAGGAAT	GGGAAGGTCA	5400
CATGCAGAAA	CCAGAGAGAA	AACAGGAGAT	TGCCAATTTA	GAGGAAATCT	GCGGTGCAAG	5460
TTTGTCTGCG	GGGCAGAAAT	TGGACTTGGT	TCTCTGGGCT	CACATCAGTC	AACAACGTCT	5520
TCGGGTCAAT	GCTTGTCAGT	TTCAAGTCAT	AGAAGAGAAA	ATGCGAGGGT	ATTTTGACAA	5580
TATCTTTTAT	CTTCGTTTGC	TGAGAAAGGT	TCCGTCCTTT	TTTGCTGGGC	AACATATTCC	5640
ACTAGGAGTT	GAGGATGGTG	AGATGATGAT	ATTCTTCTCT	TTTCTCCTAT	CTCATCGCAT	5700
TCTTCCTCTT	CATACTATGG	AGTATATTCT	TGGTTTTGGA	GGGCAGTTGG	CAGATTTACT	5760
GACGCAATTG	ATTCAAGAAA	TGAAGAAGGA	GGAACTATTG	GGGGATTATA	CAGAGGACCA	5820
TGTCACCTAT	GAACTCAGTC	AGCTTTGTGC	TCAAGTCTAT	CTCTATAAGG	GCTATATTTT	5880
ACAGGATCGC	TACAAGTACC	AGTTAGAGAA	TCGTCATCCA	TATTTACTGA	TGGAACATGA	5940
TTTTAAAGAG	ACAGCAGAGG	AGATTTTTCA	TGCTCTACCT	GCTTTTCAAC	AGGGGACAGA	6000
TTTAGATAAG	AAGATTCTCT	GGGAATGGCT	CCAGTTAATC	GAATATATGG	CTGAAAACGG	6060

			912			
TGGCCAGCAT	ATGCGGATTG	GTCTGGATTT	GACATCTGGT	TTTCTTGTCT	TTTCAAGGAT	6120
GGCAGCCATT	TTGAAACGGT	ATTTGGAATA	CAATCGTTTT	ATTACCATTG	AAGCTTATGA	6180
CCCTAGTCGG	CATTATGATT	TGCTGGTTAC	CAATAACCCG	ATTCATAAGA	AGGAACAGAC	6240
ACCAGTCTAT	ТАТТТААААА	ATGACTTGGA	TATGGAGGAT	TTGGTAGCGA	TTCGCCAGTT	6300
ATTATTCACT	TAAAAGGCTT	GGTTAATCCA	GGTCTTTTTT	GTGAAATTCA	CACAATCTCC	6360
rcacattttt	ТТАААААТТА	AAAAAAGTTG	ATAAACAAGA	AAGCGCTTTA	TTTTGTATAC	6420
PAGTAAGTGT	AAAGAGGAAA	CACCTCAAGA	TCTTTATCAG	GAGGACAGTA	CATGTCACAA	6480
GAAAAATACA	TCATGGCCAT	TGACCAGGGA	ACTACAAGTT	CTCGTGCCAT	CATTTTCAAC	6540
AAAAAAGGGG	AAAAGGTTAG	CTCGAGTCAA	AAAGAGTTTA	CCCAGATTTT	CCCTCAGGCA	6600
GGTTGGGTTG	AGCACAATGC	CAATGAAATT	TGGAACTCTG	TTCAGTCAGT	TATTGCGGGT	6660
GCTTTCATCG	AAAGTGGTGT	CAAGCCAAAT	CAAATCGAGG	CAATCGGGAT	TACCAACCAA	6720
CGTGAAACAA	CGGTTGTCTG	GGATAAGAAA	ACAGGACTTC	CTATCTACAA	TGCTATCGTT	6780
rggcagtcac	GCCAGACAGC	ACCTTTGGCT	GAGCAACTAA	AAAGCCAAGG	TTATGTGGAA	6840
AAATTCCATG	AAAAGACTGG	TTTGATTATT	GATGCTTACT	TCTCTGCTAC	CAAGGTTCGT	6900
rggattttgg	ATCATGTAGA	AGGTGCTCAA	GAGCGAGCAG	AAAAAGGGGA	ATTGCTCTTT	6960
GGTACTATCG	ATACTTGGTT	GGTTTGGAAA	TTGACTGACG	GTGCGGCTCA	CGTGACTGAC	7020
FACTCAAATG	CAGCTCGTAC	CATGCTTTAT	AACATTAAAG	AACTCAAATG	GGATGATGAG	7080
ATTTTGGAAA	TCCTTAACAT	TCCGAAGgCT	ATACTTCCAG	AAGTTCGTTC	TAACTCCGAA	7140
ATCTACGGCA	AGACAGCTCC	ATTCCATTTC	TACGGTGGAG	AGGTGCCAAT	CTCAGGTATG	7200
GCTGGGGACC	AACAAGCAGC	CCTCTTTGGA	CAGTTGGCTT	TTGAGCCAGG	TATGGTTAAG	7260
AATACTTATG	GAACAGGCTC	TTTCATCATC	ATGAATACTG	GGGAAGAGAT	GCAGTTGTCT	7320
GAAAACAACC	TCTTGACAAC	CATTGGTTAC	GGAATCAACG	GTAAGGTTTA	TTATGCCTTG	7380
GAAGGTTCTA	TCTTCATCGC	AGGAAGTGCT	ATTCAGTGGC	TTCGTGACGG	TCTTCGCATG	7440
GTTGAAAATT	CACCAGAATC	TGAAAAATAC	GCTCGTGATT	CTCACAACAA	CGATGAAGTT	7500
PATGTCGTTC	CAGCCTTTAC	AGGTCTAGGC	GCTCCATACT	GGAACCAAAA	TGCTCGTGGT	7560
CCGTCTTTG	GTTTGACTCG	TGGAACAAGC	AAAGAAGACT	TTATCAAGGC	GACTTTGCAA	7620
TCTATTGCTT	ATCAAGTGCG	TGATATCATC	GACACCATGC	AAGTGGATAC	TCAGACCGCC	7680
ATTCAAGTAC	TGAAGGTGGA	TGGTGGTGCA	GCCATGAACA	ACTTCCTCAT	GCAGTTCCAG	7740
GCGGATATTT	TAGGCATTGA	CATTGCACGT	GCTAAAAACC	TGGAAACAAC	AGCTCTAGGA	7800
GCGGCCTTCC	TAGCAGGTTT	GTCAGTAGGG	TACTGGAAAG	ACTTGGACGA	GTTGAAACTC	7860

TTGAACGAGA	CAGGAGAACT	CTTTGAGCCA	TCTATGAACG	AATCTCGCAA	GGAACAACTC	7920
TACAAGGGCT	GGAAGAAGGC	TGTGAAAGCA	ACTCAAGTCT	TTGCGGAAGT	AGACGACTAA	7980
TACTGGCAGA	ATAAAGCGAT	TTATTTAGAA	AGTGTGTAAA	TATGGAATTT	TCAAAGAAAA	8040
CACGTGAATT	GTCAATTAAA	AAAATGCAGG	AACGTACCCT	GGACCTCTTG	ATTATCGGTG	8100
GAGGAATCAC	AGGAGCTGGT	GTAGCCTTGC	AGGCGGCAGC	TAGCGGTCTT	GAGACTGGTT	8160
TGATTGAAAT	GCAAGACTTT	GCAGAAGGAA	CATCTAGTCG	TTCAACAAAA	TTGGTTCACG	8220
GAGGACTTCG	TTACCTCAAA	CAATTTGACG	TAGAAGTGGT	CTCAGATACG	GTTTCTGAAC	8280
GTGCAGTGGT	TCAACAAATC	GCTCCACACA	TTCCAAAATC	AGATCCAATG	CTCTTACCAG	8340
TTTACGATGA	AGATGGAGCA	ACCTTTAGCC	TCTTCCGTCT	TAAAGTAGCC	ATGGACTTGT	8400
ACGACCTCTT	GGCAGGTGTT	AGCAACACAC	CAGCTGCGAA	CAAGGTTTTG	AGCAAGGATC	8460
AAGTCTTGGA	ACGCCAGCCA	AACTTGAAGA	AGGAAGGCTT	GGTAGGAGGT	GGAGTGTATC	8520
TTGACTTCCG	TAACAACGAT	GCGCGTCTCG	TGATTGAAAA	CATCAAACGT	GCCAACCAAG	8580
ACGGTGCCCT	CATTGCCAAC	CACGTGAAGG	CAGAAGGCTT	CCTCTTTGAC	GAAAGTGGCA	8640
AGATTACAGG	TGTTGTAGCT	CGTGATCTCT	TGACAGACCA	AGTGTTTGAA	ATCAAGGCCC	8700
GTCTGGTTAT	TAATACAACA	GGTCCTTGGA	GTGATAAAGT	ACGTAATTTG	TCTAATAAGG	8760
GAACGCAATT	CTCACAAATG	CGCCCAACTA	AGGGAGTTCA	CTTGGTAGTA	GATTCAAGCA	8820
AAATCAAGGT	TTCACAGCCA	GTTTACTTCG	ACACAGGTTT	GGGTGACGGT	CGTATGGTCT	8880
TTGTTCTCCC	ACGTGAAAAC	AAGACTTACT	TTGGTACAAC	TGATACAGAC	TACACAGGTG	8940
ATTTGGAGCA	TCCAAAAGTA	ACTCAAGAAG	ATGTAGATTA	TCTACTTGGC	ATTGTCAACA	9000
ACCGCTTCCC	AGAATCCAAC	ATCACCATTG	ATGATATCGA	AAGCAGCTGG	GCAGGTCTTC	9060
GTCCATTGAT	TGCAGGGAAC	AGTGCCTCTG	ACTATAATGG	TGGAAATAAC	GGTACCATCA	9120
GTGATGAAAG	CTTTGACAAC	TTGATTGCGA	CTGTTGAATC	TTATCTCTCC	AAAGAAAAA	9180
CACGTGAAGA	TGTTGAGTCT	GCTGTCAGCA	AGCTTGAAAG	TAGCACATCT	GAGAAACATT	9240
TGGATCCATC	TGCAGTTTCT	CGTGGGTCTA	GCTTGGACCG	TGATGACAAT	GGTCTCTTGA	9300
CTCTTGCTGG	TGGTAAAATC	ACAGACTACC	GTAAGATGGC	TGAAGGAGCT	ATGGAGCGCG	9360
TGGTTGACAT	CCTCAAAGCA	GAATTTGACC	GTAGCTTTAA	ATTGATCAAT	TCTAAAACTT	9420
ACCCTGTTTC	AGGTGGAGAA	TTGAACCCAG	CAAATGTGGA	TTCAGAAATC	GAAGCCTTTG	9480
CGCAACTTGG	AGTATCACGT	GGTTTGGATA	GCAAGGAAGC	TCACTATCTG	GCAAATCTTT	9540
ACGGTTCAAA	TGCACCGAAA	GTCTTTGCAC	TTGCTCACAG	CTTGGAACAA	GCGCCAGGAC	9600

914 TCAGCTTGGC AGATACTTTG TCCCTTCACT ATGCAATGCG CAATGAGTTG ACTCTTAGCC 9660 CAGTTGACTT CCTTCTTCGT CGTACCAATC ACATGCTCTT TATGCGTGAT AGCTTGGATA 9720 GTATCGTTGA GCCAATTTTG GATGAAATGG GACGATTCTA TGACTGGACA GAAGAAGAAA 9780 AAGCAACTTA CCGTGCTGAT GTCGAAGCAG CTCTCGCTAA CAACGATTTA GCAGAATTAA 9840 AAAATTAAGA AAAAATAAAA GAGGTGGAGG GCAGCATTCC TTGTCGCCCG TCCCTTCTTT 9900 TTAATGGAGA CAGAAAGATG ATGAATGAAT TATTTGGAGA ATTTCTAGGG ACTTTAATCC 9960 TGATTCTTCT AGGAAATGGT GTTGTTGCAG GTGTGGTTCT TCCTAAAACC AAGAGCAATA 10020 GCTCAGGTTG GATTGTGATT ACTATGGGTT GGGGGATTGC AGTTGCGGTT GCAGTCTTTG 10080 TATCTGGCAA GCTCAGTCCA GCTTATTTAA ACCCAGCTGT GACCATCGGT GTGGCCTTAA 10140 AAGGTGGTTT GCCTTGGGCT TCCGTTTTGC CTTATATCTT AGCCCAGTTC GCAGGGGCCA 10200 TGCTGGGTCA GATTTTGGTT TGGTTGCAAT TCAAACCTCA CTATGAGGCA GAAGAAATG 10260 CAGGCAATAT CCTGGCAACC TTCAGTACTG GACCAGCCAT CAAGGATACT GTATCAAACT 10320 TGATTAGCGA AATCCTTGGA ACTTTTGTTT TGGTGTTGAC AATCTTTGCT TTGGGTCTTT 10380 ACGACTTTCA GGCAGGTATC GGAACCTTTG CAGTGGGAAC TTTGATTGTC GGTATCGGTC 10440 TATCACTAGG TGGGACAACA GGTTATGCCT TGAACCCAGC TCGTGACCTT GGACCTCGTA 10500 TCATGCACAG CATCTTGCCA ATTCCAAACA AGGGAGACGG AGACTGGTCT TACGCTTGGA 10560 TTCCTGTTGT AGGCCCTGTT ATCGGAGCAG CCTTGGCAGT GCTTGTATTC TCACTTTTCT 10620 AGTTTATACT CTTCGAAAAT CAAATTCAAA CCACGTCAGC GTCGCCTTAC CGTACTCAAG 10680 TACAGCTTGC GGCTAGCTTC CTAGTTTGCT CTTTGATTTT CATTGAGTAT TAGAAAACAA 10740 TTATGTTGAT AGAGCTTGGG CAAGAGCCCA ATTTCAGCAA AAAATGAAGT AAATCTTCTC 10800 ATAATAAAC GCATCATATC AAGCACGAAA ATTCCACGAG GTCAACTACA GTCAGAAAGC 10860 TGAACAACAA GCCAAAAACGC CCAAAAAAGG CGGCAAAAAG CAAGCACCTG CAAGCAACGT 10920 GCCGAAATGG TCAAATCCTG ATTATGTCAA CGAATTAGAC CCAAAAATCG TTGATATGCT 10980 AGTAGAATTT CACAAGTCAC AAGGCACTTT GGAAACTCCC GAGGCGCAAG CAGAAATCGC 11040 CCAAAAACGT GAAGAAATCG AGCAAAGGAG AGCTGAGCTT GAGGGTAAAA AACAAGAGCT 11100 TTTGAACCGC TTGAACAAAT AGAGTTTCGC AAGTATTATG CTTACAAATT ACTTGAGCAA 11160 TTAACTAAAA TATAAACCCT GCCTTTATAT CTAGGCAGGG TTTATATTTT AGAAATTCAC 11220 GTAGGTTGTT ACGGTTTTTA CATACCCAGT ATAGTTTGAG TTTCTATAGT ATTCAGTGAT 11280 AAACTTCCAT TTTCTTTGAG CAACATGGAT ATAAGTACTT GTTATGTAGT ATGGATATGG 11340 GCTTTGTGAA TCCAAGTAAG ACTGATAAGC TTGTATACCA AAATATGCTC CACCAATTAT 11400

915

TGCACCCCAT	GGACCCCCCA	ATAAAGCACC	TATCCTACCA	ATCATATAAC	TGATTCCAGC	11460
ACCAGTCATG	AAGTTAGCGA	ATGTGTTAGC	TTGTTTATTC	CCATGTATTG	TGTTGACGTA	11520
ATTCCAAACA	TTAGGATCGT	ATGATCTAAA	AGATATATTT	AGGTCGATTT	CATTCTTTTG	11580
ATAAGCCATA	TAAAATGCCC	CATTGATATA	GACGCCGTCA	GCACGTCGTT	CAATAGTGTC	11640
TACACTTCCA	TCTGGATTGA	CAACCTCAAG	AACTTCATCG	СТТААААТАТ	TTACTTGCGT	11700
ATCTCCGAAC	CGCACTGATG	AGCCATTCTC	AAACTGAGCC	TCACCAGATA	CAACTTTAGA	11760
GTTTGCCGAT	AAGCTATCAT	CAGCAAAAAC	AAACAAGCGA	CGGGGAAATG	CTAGACATAC	11820
AGAAAACAGA	CATAACTAGC	AAACACATGC	ATTTAAACAT	CTTAGACATA	ACGGAAACTC	11880
CTTTGTATTT	TTGATTTTTT	TCAACTTTTA	TTATACAATA	АААССАААТА	AAAAGAAAGC	11940
GGTAACAATA	TGCTTAATGC	GAAAATTTTT	TATATATTT	TATGTTTGAT	CGTTATCGAA	12000
ACTACAGGCT	TGTTGTTGTT	GAAAAGAGGT	CTCGAAATGG	GTTATTTAGA	CACAGAAGCT	12060
ATTATCCTCG	CAGTTTTTTC	ATTTGCTTTT	TACAACCTAT	GTTCATTCGC	TTGGGTCTGC	12120
TCTACAATAA	AAAACAATAA	ААААТАААТА	GACGTATTTT	CAAAAAAAAC	maAATGCATA	12180
TTTATATTAG	CAAAACGACG	ATTTAAATCG	TCGTTTTTTT	GTAGTACGAC	GGGCATGTCG	12240
TATATCTGAG	GTGTAAGTCC	TCAGCCTGAC	TATCGTGAGG	TAGCAGGGAG	AGGAAGGGAT	12300
AGCGAAATCG	TGGCTCTACG	AACAGGAACG	TGATAGTAAG	GCGTATATAG	CGGATAAGGA	12360
GGCTTCAAAC	TCTAAAGTCC	AAAAAGGTAG	TCGTAACCTA	TATGTGTAAA	TCACGAGAGT	12420
AATTGAATTC	GGACTAAGGT	TTGTGTGAAA	AAGATAAATC	TTTCTAGAGT	CTAAAGACTC	12480
TGCGTCAGAT	TTCCTATTTT	CACTGTAACC	TTTTAACGTC	CTCATATCTT	GTATAAACGA	12540
GGAAAGATGT	ACGACTTATC	CCGTGAGGTT	TCATGAGCGT	GAAAGCGTAG	TAACAACGAA	12600
TCATGAGAAG	TCAGCCGAGC	CCATAGTAGT	GAGGAAACTT	CCGTAATGGA	AGTGGAGCGA	12660
AGGGG						12665

## (2) INFORMATION FOR SEQ ID NO: 135:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 5305 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 135:

CGCTAATCAC TACAATCATT TTATTGTACT TTTTCACTCT CAAGAAAAGC AAGAAGTATT

916 CATTTTAGTT TCATTTAGTA TTATTTTGCA TACCTAAAAT ACAGTAAAAA ATCAGTCATC 120 TTGGTATGCT CCTGCTTTCA CTATTCAACA CGTTTTTGAC TTATACTAGG CTCATTTCCA 180 240 AAATTCGTTT AAAAGATCTT ACTAAAGCTA ATACTAAATA AAAATAAAAG AGTAAACTAG 300 GAAGTTTATT TCAAACAACC TAAAATACTG ATTTTCGGCT GAAGATAATA CTGGAGTGCA 360 AATTAATGGG GTTATAATAA ATAGCTGATA GCTTGTGTTG GTTTTGGATT TTTTAAGAGT 420 AGATGAGTAT TAAAACTATA AGGAGGACGA AGGTGGCTAA AAATTTAAAA TTAAAATTAG 480 CTCGGGTAGA GCGTGATTTA ACACAAGGTC AACTGGCAGA GGCTGTCGGG GTGACACGCC 540 AGACTATTGG TTTAATAGAG GCGGGAAAAT ACAATCCCAG TCTCTCGCTC TGCCAGTCTA 600 TTTGCAGATG TTTAGGGAAA ACCCTAGACC AACTATTTTG GGAGGAAGAA GATGAAAAAT 660 AGATTTTATT ATTCTCAATT ACTAGACGAA AGAGAAGAAC AACTGTTCAA TAAAGCGGGC 720 TCTGAAAGTT TCTATATCTG CATTGCTTTG TCGCTCCTAT CTTATATCAT TTCAGTATTA 780 GCACCAAGCC TTTTTAATTC TAATATGCTG CTAATCGTTA TCATCATAGG GACATTTTAC 840 TTTTTCAATC GTGCCCGTTA TCTGGGAGTG ACCTACTATG GTCGTTTTCA TTTTACGATT 900 TTGGGTTGTT TTTTCCTAAC CTTGGCTATT ACGGCTCTTT TGATGTTGCA GAATTATCAA 960 TTCAACATAG AAATTTATCA GCACAATCCT TTGAATTTTA AATACCTGTC TGCTTGGGTC 1020 ATTACTTATA TCATTTACCT TCCGTGGATC TTTATTGGCA ATCTTGGTCT TAAGAGCTAT 1080 GGCGAATGGG CTCAGAAAAA ATTTGAACAA GATATGGATG AATTGGAGAG TGGAGAATAG 1140 CTTGTTACTC TTTTCTCAAT CCAGCTAAAA TGTGATATAA TAGTACTAAT TTATTGGAAT 1200 ACATGAAAGT TCTTGAAAAT TTTCATGGGT TTCTAGCTAA GGAAGTAGGA AAAGTATGTA 1260 TCCAGATGAT AGTTTGACAT TGCACACGGA CTTGTACCAG ATCAACATGA TGCAGGTTTA 1320 CTTTGACCAA GGGATTCACA ATAAGAAGGC GGTCTTTGAG GTGTATTTCC GCCAACAGCC 1380 TTTTAAGAAC GGCTATGCGG TTTTTGCAGG TTTAGAAAGA ATTGTGAACT ATCTTGAAGA 1440 CTTGCGTTTT TCAGATAGTG ATATAGCCTA TTTGGAGTCG CTTGGTTATC ATGGGGCGTT 1500 CTTGGATTAC CTTCGCAATT TCAAGTTGGA GTTGACCGTT CGTTCTGCCC AAGAAGGGGA 1560 TTTGGTTTTT GCTAATGAAC CGATTGTGCA GGTGGAAGGA CCTCTAGCCC AATGTCAGTT 1620 GGTCGAAACG GCTCTTTTGA ACATCGTCAA CTACCAGACT TTGGTGGCGA CGAAGGCAGC 1680 TCGTATTCGT TCGGTTATCG AAGATGAACC CTTGATGGAG TTTGGGACAC GTCGGGCTCA 1740 AGAAATGGAT GCGGCCATCT GGGGAACACG CGCAGCTGTG ATTGGTGGCG CCAATGGAAC 1800 CAGCAACGTG CGTGCGGGTA AGCTCTTTGA CATTCCTGTT TTGGGAACCC ATGCCCATGC 1860

CTTGGTACAG	GTTTATGGCA	ATGACTATGA	AGCTTTCAAG	GCTTACGCTG	CGACCCACAA	1920
AAATTGTGTC	TTTCTTGTGG	ATACCTATGA	CACCCTTCGC	ATCGGTGTAC	CAGCTGCCAT	1980
TCAGGTGGCG	CGTGAGCTGG	GTGATCAGAT	TAACTTTATG	GGTGTGCGGA	TTGACTCTGG	2040
GGATATTGCC	TACATTTCTA	AGAAAGTCCG	TCAGCAACTG	GATGAGGCTG	GATTTACAGA	2100
GGCTAAGATT	TATGCTTCTA	ATGATCTAGA	TGAAAATACC	ATCCTTAACC	TCAAGATGCA	2160
AAAGGCCAAG	ATTGATGTCT	GGGGTGTGGG	TACCAAGCTG	ATTACAGCCT	ATGACCAGCC	2220
GGCTCTTGGG	GCGGTTTACA	AGATTGTTGC	AATCGAAGAT	GAAACTGGTC	AGATGCGCAA	2280
TACGATTAAG	CTGTCTAATA	ATGCTGAAAA	AGTTTCTACG	CCAGGTAAGA	AGCAGGTGTG	2340
GCGCATTACC	AGTCGTGAAA	AAGGCAAGTC	AGAAGGCGAC	TATATCACTT	ATGATGGTGT	2400
GGATATTAGC	GACATGACAG	AAATCAAGAT	GTTCCATCCG	ACCTATACAT	ACATCAAGAA	2460
GACGGTTCGT	AATTTTGATG	CCGTTCCTCT	CTTGGTGGAT	ATCTTCAAAG	AAGGAATATT	2520
AGTTTACAAC	TTGCCTAGTT	TGACTGACAT	TCAGGATTAT	GCCCGTAAGG	AATTTGACAA	2580
GTTGTGGGAT	GAGTATAAGC	GTGTGCTCAA	TCCGCAGCAC	TATCCAGTGG	ATTTGGCGCG	2640
TGATGTATGG	CAAGATAAGA	TGGACTTGAT	TGATAAGATG	CGCAAGGAAG	CCCTTGGTGA	2700
AGGAGAAGAA	GAATGAGTTT	GCAAGAAACG	ATTATCCAAG	AGCTGGGTGT	CAAACCAGTG	2760
ATTGATGCCC	AGGAAGAAAT	CCGTCGTTCT	ATTGATTTCT	TAAAAAGATA	TCTGAAAAA	2820
CATCCCTTCC	TAAAAACCTT	TGTACTAGGG	ATTTCTGGGG	GACAAGACTC	AACCTTGGCA	2880
GGACGTTTGG	CGCAATTAGC	TATGGAAGAA	CTGCGAGCTG	AAACGGGAGA	CGATAGCTAC	2940
AAATTTATCG	CTGTCCGCCT	GCCATACGGA	GTGCAAGCTG	ATGAAGCAGA	TGCTCAAAAA	3000
GCCCTAGCCT	TCATCCAGCC	AGATGTCAGC	TTGGTTGTGA	ATATCAAGGA	ATCAGCTGAT	3060
GCCATGACAG	CTGCAGTTGA	AGCGACAGGT	AGTCCTGTTT	CAGACTTCAA	CAAGGGGAAT	3120
ATCAAGGCAC	GTTGCCGTAT	GATTGCTCAG	TATGCCCTTG	CTGGTTCCCA	TAGCGGAGCG	3180
GTCATTGGAA	CAGACCACGC	CGCGGAAAAT	ATCACAGGTT	TCTTTACCAA	GTTTGGTGAC	3240
GGCGGTGCGG	ATATTCTCCC	TCTTTACCGC	CTCAATAAAC	GCCAAGGAAA	ACAGCTCTTG	3300
CAGAAACTTG	GCGCAGAGCC	AGCCCTTTAT	GAAAAAATCC	CAACGGCAGA	CCTAGAAGAA	3360
GATAAACCAG	GCCTAGCTGA	CGAAGTCGCA	CTTGGAGTCA	CCTACGCAGA	GATTGACGAC	3420
TACCTAGAAG	GCAAAACAAT	CAGCCCAGAA	GCTCAAGCGA	CCATTGAAAA	CTGGTGGCAC	3480
AAAGGCCAAC	ACAAACGCCA	CTTACCCATC	ACCGTATTTG	ATGACTTTTG	GGAGTAAAAA	3540
GGTCCGGGGG	ACCTTTTTAG	CTTCTTGCCC	TGAAATTAAA	AAGCAAGAAA	AACCTCCACT	3600

			918			
GGAGGTTTTC	AGCCTCTCAT	CTTGAAATAA		GAAGGTCTGG	GGGATCTTGA	3660
ACCCCGAGTT	TAGAAATAAG	AAAATGAGGC	AGATTCAGTA	ACTCGAAGAG	TTCGATTTCA	3720
TCGTCTTACC	CCTGCAACGA	TGACTAGGTT	TGAAAAAGCT	TGCTAGAGCG	CATTTCAAAC	3780
CAGGCAGCAA	CTGCGTCAAG	AAATTAGAAG	ACAAACTCGT	TTTCTAGCTG	TTACTGAGTT	3840
GAGCCTTTTT	ACTACGAGTA	TAGAAATAAG	GAAGTGAGGT	AGCATCATGA	AATCTATCGG	3900
TACGCAAATA	TTACAGACAG	AACGTTTGAT	TTTAAGAAGA	TTTGTGGAGA	GTGATGCAGA	3960
AGCCATGTTT	CAAAATTGGG	CTTCATCCGC	TGAGAATCTG	ACCTATGTTA	CCTGGGATCC	4020
CCATCCTGAT	GTCGAAATCA	CTCGAAACTC	GATTTGCAAT	TGGGTTGCTT	ССТАТАСТАА	4080
TCTCAACTAT	TATAAATGGG	CCATTTGTCT	AAAAGAAAAC	CCAGAGCAAG	TAATAGGAGA	4140
TATCAGCATT	GTTAAGATAG	ACGAGGCTGA	TTTAAGCTGT	GAAATTGGCT	ATGTGTTAGG	4200
CAAGGCTTAC	TGGGGAAATG	GTATGATGAC	AGAGACTTTG	AAAGCTATCT	TGGACTTTTG	4260
TTTTACTCAA	GCAGGTTTTC	AAAAGGTCAG	AGCACGTTAT	GCCAGTCTCA	ACCCAGCTTC	4320
AGGTCGTGTC	ATGGAAAAGG	CTGGAATGTC	CTATCTACAA	ACCATTGTTA	ATGGTGTAGA	4380
GAGAAAAGGC	TATCTTGCGG	ATCTTATTTA	TTATGGTATA	AGTAGGGAAG	AATGTTGAAT	4440
TCTATTTTCT	GTTTCTATCG	AAGTCAACTA	TTTATTGTAA	АТАТААТААТ	TAGCATTCCA	4500
AGTTTATTTG	AAACTTTAAA	ATAGCATATT	GATTAGTACA	AGACAGATGT	TCTAGTTCCT	4560
TCTTTAATCT	GGTTTAGTGT	TAGTTAAAAA	ATCGCTTTAA	GCTTGTAACT	AAGAGGGAGC	4620
TAATCGACTA	GATTCTCCAG	CCGAACAGGI	GGTAATGTAC	TTTTTATAGT	GTAATCCTAG	4680
CTGTTGTTAA	ATTTAAAATA	GAATCCTCTA	TCGAGTTAGG	GAATTAAATT	CAACCAATTT	4740
TATTCATGTT	TTTTCTATCA	AATTATCTAA	ТАТТААААТА	GTCTCATTCT	GATGAGAAAA	4800
CTATTCCCAA	ATCATTCATA	CCTCTCTCAA	CTAGATGTAA	CTTACAAAAC	CCCTGACCTC	4860
ATGAGCCACT	TTCTTCCTCC	TCATGAGGTC	AGTTTTACTT	TCTGCTGTTC	CAGTATCGTT	4920
TTTCCTCGCT	AGATTTCCTC	AAAAGGCCAG	ACTCCTCCCT	TGGTGCGTCA	CACGATTTTT	4980
TCATCTCGAC	TGTTCTTTAA	TGCATCATTA	ACGACGCTTT	TCTTCTAGGT	GGTTCATAAG	5040
GAACAGGAAG	ATTCAGGTTG	ACTTTTCTAA	TCCTAGAATA	AAGTGCTGAA	AACAATTCGG	5100
AATAGGCATA	GAGACTAGAC	AATTTGAGGA	GCTGCTTGCG	TCCTGTTCGA	ACACATTTTC	5160
CCACCACGTG	AAGAAAAGA	TGGCGGAAGC	GTTTGATTGT	TAAAGTTTGG	AAGTCACCTC	5220
CAGCTAGATG	TTTGAGAAAA	AGATAGAGAT	TGTAGGCGAT	ACAGCTCATC	ATCATACGAA	5280
CTTCGTTTTT	GATTAAGGTT	GAACT				5305

<sup>(2)</sup> INFORMATION FOR SEQ ID NO: 136:

919

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 3964 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 136:

TGGCAGCTCG	TCGTCGTAAA	GGACGCAAAG	TTTTGGCTGC	ATAATCCAAA	CGAATTCTAT	60
CAAAAATCAG	TAGGAACTCG	AGTCTACTGA	TTTTTATTTT	TGTAAAAAAG	TTCAGTAGAT	120
GCAAATGGAT	TCGGAAGCGA	TGTTACAGTA	GATTGAAACT	AGAATAGTAC	ACCTCTGTTT	180
CTAAAACATT	GTTAGAAATC	GATTTGACTG	TCCTGATCGA	TTTGTCCTGT	TATTATTTTA	240
ТТТТАСТАТА	AAGTTGAAGT	AGGTGGAGAT	GGTACAGCAA	CAATCGTCTT	TAAAGATGGT	300
TCAGCTATTA	CAATTCCAGG	AAATCAATTG	GTAGCACAAG	ATCCAAAAGC	ACAAGATAGC	360
ACTAAACTGA	CTGCTGAAAA	ATCAACTGTT	AAAGCACCTG	CTCAAAGAGT	AGATGTAAAA	420
GATATAACTC	ATTTAACAGA	TGAAGAAAAA	GTTAAGGTTG	CTATTTTACA	AGCAAATGGT	480
TCAGCATTAG	ACGGAGCGAC	AATCAATGTA	GCTGGAGATG	GTACAGCAAC	AATCACATTC	540
CCAGATGGTT	CAGTAGTGAC	GATTCTAGGA	AAAGATACAG	TTCAACAATC	TGCGAAAGGT	600
GAATCTGTAA	CTCAAGAAGC	TACACCAGAG	TATAAGCTAG	AAAATACACC	AGGTGGAGAT	660
AAGGGAGGCA	ATACTGGAAG	CTCAGATGCT	AATGCGAATG	AAGGCGGTGG	TAGCCAGGCG	720
GGTGGATCAG	CTCACACAGG	TTCACAAAAC	TCAGCTCAAT	CACAAGCTTC	TAAGCAATTA	780
GCTACTGAAA	AAGAATCAGC	TAAAAATGCC	ATTGAAAAAG	CAGCCAAGGA	CAAGCAGGAT	840
GAAATCAAAG	GCGCACCGCT	TTCTGATAAA	GAAAAAGCAG	AACTTTTAGC	AAGAGTGGAA	900
GCAGAAAAAC	AAGCAGCTCT	CAAAGAGATT	GAAAATGCGA	AAACTATGGA	AGATGTGAAG	960
GAAGCAGAAA	CGATTGGAGT	GCAAGCCATT	GCCATGGTTA	CAGTTCCTAA	GAGACCAGTG	1020
GCTCCTAATG	CTGCTCCTAA	GACAACAAGT	GCACCGCAAG	CAACTGCAGG	AACAATGCAA	1080
GATGTTACCT	ACCAGTCACC	TGCTGGCAAA	CAATTACCTA	ACACAGGTTC	AGCATCAAGT	1140
GCAGCACTTG	CTAGTCTTGG	TCTAGTGGTG	GCAACAAGTG	GTTTTGCTTT	GCTAGGAAGA	1200
AAGACTAGAC	GTAGAAAATA	GAACAGCTAG	AAAATTCTAT	TCTCTACTTA	AAGTTAGATT	1260
ATAAGGGGGA	TTTTGAGAAG	TCATCAATCC	TAGTGATGGG	TGAGAAAAGT	GAGAACCCAA	1320
GATAATCACA	TACTTTAGCT	GAATAGGAAT	ATTCTATCAA	TGTAGCCAAT	CTCTTCTGTC	1380
TCTAACTGTG	GAATAGGAGA	TGGGCAATAT	CGGATAGAAA	AGATAGCAGA	ATAGCTCTCT	1440

			920			
ATTGAAGAGA	GGAGGGGAAA	CCGAAAAATT	AGGTGCCCCT	CCTCTTTTTT	GGTATAATAG	1500
AAGATAGAAA	ACGAGGTTAG	AAGAGATGAT	TTTTGATACA	CATACACACT	TGAATGTAGA	1560
AGAATTTGCA	GGTCGTGAGG	CAGAAGAAAT	TGCCTTGGCT	GCTGAGATGG	GTGTGACACA	1620
GATGAATATT	GTTGGTTTTG	ATAAACCGAC	GATTGAGCAT	GCCTTGGAGT	TGGTAGATGA	1680
GTATGAGCAG	CTCTATGCGA	CTATTGGTTG	GCATCCTACA	GAAGCTGGTA	CTTATACAGA	1740
GGAAGTTGAG	GCTTACTTGT	TGGATAAGTT	AAAACATTCC	AAGGTTGTGG	CTTTAGGTGA	1800
AATTGGCTTA	GATTACCATT	GGATGACAGC	GCCCAAAGAG	GTGCAGGAGC	AGGTTTTTCG	1860
CCGTCAGATT	CAGCTATCTA	AGGACTTGGA	TTTGCCTTTT	GTTGTCCATA	CCCGTGATGC	1920
GCTGGAAGAT	ACCTATGAGA	TTATCAAGAG	TGAGGGCGTT	GGTCCTCGTG	GTGGTATCAT	1980
GCATTCATTT	TCAGGGACGC	TTGAGTGGGC	AGAGAAGTTT	GTGGATCTTG	GTATGACCAT	2040
TTCCTTCTCA	GGAGTGGTGA	CTTTTAAGAA	GGCAACTGAC	CTCCAAGAAG	CAGCTAAAGA	2100
GTTACCTTTG	GACAAGATGT	TGGTGGAAAC	AGATGCGCCT	TACTTAGCAC	CTGTACCCAA	2160
GCGTGGTCGT	GAAAATAAAA	CAGCCTATAC	TCGCTATGTG	GTCGACTTTA	TCGCTGACTT	2220
GCGTGGTATG	ACGACAGAAG	AGCTGGCGGT	AGCAACGACT	GCAAATGCAG	AACGAATTTT	2280
TGGACTGGAC	AGCAAGTAAT	GAAAGAGAAA	ATTTCTCAAG	TTATCGTGGT	TGAAGGCGT	2340
GATGATACGG	TCAATCTCAA	ACGTTATTTC	GATGTGGAGA	CCTATGAGAC	TCGAGGTTCT	2400
GCCATCAATG	CTCAGGATAT	AGAGCGGATT	CAGCGCCTGC	ACCAACGTCA	TGGAGTCATT	2460
GTCTTTACAG	ACCCAGATTT	TAATGGGGAA	CGGATTCGGC	GCATGATCAT	GATGGTCATT	2520
CCAACAGTTC	AGCATGCCTT	TCTCAAGCGA	GATGAAGCTG	TTCCCAAGTC	CAAGACCAAG	2580
GGGCGTTCTC	TGGGAATTGA	GCATGCCAGC	TATGAAGACC	TGAAAACGGC	TCTAGCTCAA	2640
GTGACAGAAC	AATTTGAACA	TGAGAGTCAG	TTTGACATTA	GTCGTAGCGA	TTTGATTCGC	2700
CTTGGTTTTC	TAGCAGGGGC	AGACAGCCGT	AAGCGTAGAG	AATATCTCGG	AGAGACTCTC	2760
CGAATCGGCT	ATTCCAACGG	CAAGCAACTC	CTCAAACGCC	TAGAGTTGTT	TGGGGTTACT	2820
TTGGCAGAAG	TGGAAGAAGC	TATGAAATCT	TATGAGTAGG	AAAGATGTAG	CCGTTACAAT	2880
TTTTTAAGTT	TCACAGTATT	TTTCGAAGCA	GGTAGAAGAG	GAGGCGTCTG	ATGTTAATTG	2940
GTCAAAAAAT	TAAAGAGATT	CGGATAGAAA	AAGGAATTAG	TCGTCCAGAT	TTTTGTGGAG	3000
ATGAGCAAGA	ACTGACAGTT	CGTCAACTGT	CGCGAATTGA	AAGTGGAGCT	TCGCAACCGA	3060
GTTTGCCCAA	GTTAGACTAT	ATTGCTCGCC	GGCTAGGAGT	TCCAGTTTAT	AGCCTTATGC	3120
CGGATTTTTC	AGCTCTTCCT	TCTGCTTATT	TAGAATTGAA	ATACCAGATT	TTACGTGAAC	3180
CAATCTATGG	TAAAGAAGAG	GAGTACGATA	AGAAGGAAGC	GTGTTTGGAA	GAGATTTATA	3240

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AAACATACTT	TGATAATCTT	CCTAAAGAAG	AACAATTAGC	ATGTGAAGTA	TTGCAGGCGT	3300
GTTTGGATAC	TTCTAGAACT	AGAAGGCCTG	AATATGCAGA	GTTAATACTT	GAGGAACATA	3360
TGCCTCAGAT	TATAGAAAAA	GAAGCTTATT	CAATAAATGA	TATGTTGTTG	ATTCGTTTGT	3420
ТТТТТТАТСА	AATGCTCATT	AGAAAAGATC	TTGCCAAATT	ТАТАААТСАА	ATCGAAAAGC	3480
TAATGCTCTT	TCTTTTGGAA	CAGAAGAAGG	TAACTCAAAT	AGAGAATTAC	ТТТАТААТТА	3540
GAGATACTCT	TATTTCAGGA	ATGTGTTGTC	TTGAAAAGGT	AGGAGTAACT	GATTGTTTTA	3600
ATGATTATCT	ATCGTGTTTA	CAAGAAATTA	TGGATAAAAC	TCAAGATTAT	CAAAAGAAAC	3660
CTCTTGTATT	TATGTTTTTG	TGGAAGCAAG	CATTAAGAGA	AGAAAGAGAT	TTTAGTTTAG	3720
CTGAATCATT	TTATCAGTCT	TCTAAAACAT	TTGCGCAGCT	AATTGGAGAT	GAATTTCTAG	3780
TAAAGAAATT	GACAGAGGAA	TGGCAAGAGG	ATGTCAAAAA	АТАТТТАТАА	ACATAGTGAA	3840
TCAGTGACAA	AGATGTCCTT	GTCCTCGTAT	CAAAACAGTT	CTAAAGTTCG	TCTTTAGGGA	3900
TGTTTTTTA	GATATAAGCT	AAAAATGACA	CGAAATGGTT	AGATTTTAAG	GACATTGATG	3960
TCCG						3964

# (2) INFORMATION FOR SEQ ID NO: 137:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 12666 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 137:

TGAGACCGTT	ATTTGTATTA	GGGAAATGGG	TATCTATTTT	TAATGCTGTG	GGGATTTTGA	60
TTGTTTCTAT	TATTCAAACC	AAAAGCTTGT	CAGGTATTGG	AGCAGGATTG	TTTAATCTAT	120
ATAACATTTC	ATCTTATATA	GGTGATTTAG	TTAGTTTCAC	TCGATTGATG	GCATTAGGAT	180
TATCTGGAGC	AAGTATAGCA	TCAGCTTTCA	ATTTAATTGT	TGGTTTGTTT	CCGGGAATAT	240
TGGCTAAACT	GACAATTGGA	TTAGTATTAT	TCATTCTTTT	ACATGCGATC	AATATTTTTC	300
TATCGTTACT	ATCAGGATAT	GTTCATGGAG	CACGTCTGAT	ATTTGTTGAA	TTTTTTGGTA	360
AGTTTTATGA	GGGTGGAGGA	AAACCATTTC	AACCTTTGAA	GGCTTCTGAG	AAATATATTA	420
AGGTTATTAC	AAAGAATTAA	TGGAGGATAT	ATATAATGGA	ACATTTAGCA	ACTTATTTTT	480
CAACCTATGG	AGGAGCTTTC	TTCGCTGCAT	TGGGAATTGT	ATTGGCGGTT	GGATTAAGCG	540
GTATGGGGTC	TGCTTATGGA	GTTGGTAAGG	CTGGGCAATC	TGCCGCAGCT	TTACTGAAAG	600

			922			
AACAGCCTGA	AAAGTTTGCC	TCAGCTTTGA	TATTGCAATT	ATTGCCCGGA	ACACAAGGAT	660
TATATGGTTT	TGTTATTGGA	ATTTTAATTT	GGTTGCAATT	AACTCCAGAA	CTTCCTTTAG	720
AAAAAGGCGT	TGCTTATTTC	TTTGTAGCTC	TTCCAATTGC	TATTGTAGGA	TACTTTTCAG	780
CTAAGCATCA	AGGAAATGTA	GCAGTAGCGG	GAATGCAAAT	CTTGGCTAAA	AGACCAAAAG	840
AATTCATGAA	GGGAGCAATT	TTAGCTGCCA	TGGTAGAAAC	CTATGCAATT	CTTGCTTTTG	900
TCGTATCATT	CATTTTGACC	CTTCGTGTAT	AAGAAATAAA	TTTGCAATTC	AAAGGAGGTG	960
TCTAAATGAG	CAATTTAGAA	AACTTACGAG	AGTCTGTTAT	TGAACAAGCT	CATGAAAAAG	1020
GGCGTATGAA	ATTATTGGAT	TCCAAAAAGA	AGATTGATGA	TGAATTTGAA	ATGCAAAAGT	1080
CGCTCATTAT	AAAGAAAAA	GAAGCTGAAC	ATGAACGAAA	GTTAAAAGAA	TTGCAACAGA	1140
ААТАТСАААТ	AATTTTTCAA	СААТТААААА	ATAAGGAACG	CCAATCAACG	TTAGTATCAA	1200
AACAGAAAAT	ATTAAAAGAA	CTTTTTCAAT	CTGCTTTACT	AGAAATGGAA	TCTTGGAGTG	1260
CAGATAAAGA	AATGGAGTTC	ATCTATCGAA	TTCTGGAACG	ATATTCACAA	CAAGAGGTCA	1320
PAGTAACCTT	TGGGGAACGG	ACTTTAGCTA	AATTCAATTT	GGAACAATTA	GAGAAATTGA	1380
AATTCTCTTT	TCCAAATTAT	TTATTTAGTG	AACAACCTAT	CTCAAATGAA	TCAGGCTTAC	1440
TTATTTCAAT	AGGTAAAATT	GATGATAACT	ATTTGTATAA	AACATTAATT	GGATCGATTT	1500
CTAAGGAAGA	AAGTTCAAGT	ATCGCAAATC	AAATTTTTAT	CAATTAAGGA	TGAAATTGGT	1560
PAATCCTTCT	TAGAAATTTG	GAGTATTCCA	ATAAAATTAG	AAAGGTATTT	TATGGATACT	1620
AATCTTTTTT	САААААТААА	TACGACGATT	TCGGTAAAAG	AAAACGATTT	TATTACAGAA	1680
GAAAAATTTC	AAAAAATTAT	ACAATCCAAA	GATACGGAGA	CATTGGCATT	TATCTTAGAA	1740
TCAACTCCCT	ATCATTTATC	GATTGACATC	TTAGAAGATC	CTAGTCAGAC	AGAGATTTCG	1800
CTAATGACAA	AATTAGTCAA	TGATTATAGA	TGGGCCTATG	CTGAAAGTCC	GTCTGATATA	1860
ATTGTGACTT	TATTTGCTTT	ACGATATGTT	TATCATAATA	TCAAAGTTTT	АТТААААТСТ	1920
AAGGCGGCAA	TTAAGAAAGA	TTTTTCTAAA	TTATTAATTC	CAATAGGGAT	TTTTGATATA	1980
GAAAGTTTAA	AACATTTAGT	TTCTTCCTTA	CATTCAGATA	CACTTCCTGA	TTTTATGGTT	2040
CGTGAAGTAG	AATCAATTTG	GAATGAGTAT	GAAACTTTTA	ATAATATTCG	TGTACTTGAT	2100
STCGGAGCTG	ATCTAGCATA	TTTTAAACAT	CTGAAACTTT	TATCTAATGA	GTTAGATGAG	2160
GTACTGTCTC	AGGTTATTGT	CGAAATGATT	GACTTTTATA	ATATTATTAC	TGTAAAACGT	2220
GTTTATCTC	AAAATAAGAG	TCATGGGGAT	ATTTTACAAT	TACTTTCAGA	TGAAGGAAGT	2280
ATTTCTGCTA	AAGAATTTAT	ATACATTGTA	GAAAATCAAG	AAATATTTGT	GTGGTTCAAT	2340
AAATAAATC	CAAGCTTAGA	TTCAATCTTT	TCAACTTATG	AATTGAAGAT	GCAGGACGCA	2400

ACAATTTCAT	CTTCTGAGTT	AGAATTTTTA	TGTGATTTAC	TATTGTATAA	AACTTTAGAT	2460
CAAGGAAGGT	ACAATGTAGA	GGGGCCGTTA	GTTCTTGCTA	GATATTTATT	GGGATGTGAG	2520
TTTGAAGTAA	AGAATCTCAG	AATGATCATA	TCAGCTCTTC	AAAATACAAT	TCCCTTTGAA	2580
TCAATAAAAG	AAAGGATACG	CCCACATTAT	GGAAGCTAAT	AAGTATAAAA	TTGGCATAAT	2640
TGGTAGCCGT	GATATTATTT	TACCATTTAG	CATGATTGGG	TTTGATATAT	TTCCTGCCTA	2700
CCAAGAACAA	GAAGCTATAA	ATACACTAAG	AAAATTAGCT	CAATCTGATT	ATGGTGTCAT	2760
TTATATCACT	GAAGACATTG	CTTCAATGAT	ATTAGATACA	ATTCGCCATT	ATGATTCCCA	2820
AGTTGTGCCT	GCTATTATTT	TATTACCGAC	TCATAAACAA	GGTTTAAATT	TAGGATTAAA	2880
ACGTATAGAG	GATAATGTAG	AGAAAGCAGT	AGGACACAAT	ATTTTATAAT	AATGTACAAA	2940
ATTGTCTGTA	ATATTATTCT	ATAATTTTTG	GACTTAGTAA	GGAGAATAAC	TTTGACTCAA	3000
GGGAAGATTA	TAAAAGTATC	GGGACCTCTA	GTTATTGCAT	CAGGTATGCA	GGAGGCTAAT	3060
ATTCAAGATA	TTTGCCGTGT	AGGTAAGCTA	GGGTTAATCG	GTGAAATTAT	TGAAATGAGA	3120
AGAGATCAGG	CATCTATCCA	AGTCTATGAA	GAAACATCTG	GTCTTGGTCC	GGGAGAACCT	3180
GTTGTTACAA	CTGGAGAACC	TCTCTCGGTT	GAATTAGGGC	CAGGATTGAT	TTCTCAAATG	3240
TTTGATGGCA	TACAACGCCC	ATTAGATCGA	TTTAAATTGG	СТАСТСАТАА	TGATTTTCTA	3300
GTTCGTGGGG	TAGAAGTTCC	AAGTTTGGAT	AGAGATATTA	AGTGGCATTT	TGATTCCACT	3360
ATAGCAATTG	GTCAAAAAGT	GAGTACGGGT	GATATTCTTG	GAACTGTCAA	GGAAACCGAG	3420
GTAGTTAATC	АТААААТТАТ	GGTTCCTTAT	GGAGTATCTG	GAGAAGTCGT	TTCTATTGCA	3480
TCTGGCGATT	TTACAATTGA	TGAAGTTGTA	TATGAAATAA	AAAAATTGGA	CGGTAGTTTC	3540
TATAAAGGAA	CGCTTATGCA	AAAATGGCCT	GTCCGCAAGG	CGCGTCCTGT	TTCTAAACGT	3600
TTAATTCCAG	AAGAACCATT	AATCACAGGT	CAACGAGTTA	TTGATGCATT	CTTTCCAGTA	3660
ACCAAAGGGG	GAGCTGCAGC	AGTTCCTGGA	CCGTTTGGAG	CAGGAAAGAC	AGTTGTACAA	3720
CACCAAGTAG	CTAAATTTGC	CAATGTTGAT	ATTGTTATTT	ATGTCGGTTG	TGGAGAACGT	3780
GGAAATGAAA	TGACGGATGT	ACTGAATGAG	TTTCCTGAGT	TGATTGACCC	TAATACCGGA	3840
CAATCAATTA	TGCAACGGAC	AGTTCTGATT	GCTAATACTT	CAAATATGCC	TGTTGCTGCT	3900
CGTGAGGCTT	CAATTTATAC	AGGAATTACC	ATGGCTGAGT	ATTTTCGTGA	TATGGGCTAC	3960
TCTGTCGCCA	TTATGGCTGA	TTCAACTTCA	CGTTGGGCAG	AAGCGCTACG	TGAAATGTCA	4020
GGACGTCTAG	AAGAAATGCC	TGGTGATGAG	GGTTATCCTG	CTTATCTGGG	AAGTCGTATC	4080
GCTGAATATT	ATGAAAGAGC	AGGACGTTCT	CAGGTTCTAG	GGCTTCCAGA	ACGTGAAGGA	4140

ACGATTACTG	CTATTGGAGC	TGTATCGCCA	924 CCTGGTGGAG	ATATTTCAGA	ACCAGTTACT	4200
CAAAACACTT	TACGGATTGT	GAAAGTTTTT	TGGGGGCTTG	ATGCTCCGTT	GGCACAGCGA	4260
CGTCATTTTC	CTGCAATTAA	CTGGCTTACA	TCTTATTCAC	TATATAAAGA	CAGTGTGGGC	4320
ACTTATATAG	ATGGTAAAGA	GAAGACAGAT	TGGAATAGTA	AAATAACTCG	TGCGATGAAC	4380
TACTTACAAC	GGGAATCTAG	TTTAGAGGAA	ATTGTTCGTC	TTGTTGGAAT	TGATTCTCTG	4440
TCTGATAATG	AACGACTAAC	GATGGAAATT	GCTAAACAAA	TTCGAGAAGA	TTATTTGCAA	4500
CAGAACGCTT	TTGATTCGGT	AGATACATTC	ACTTCGTTTG	CAAAACAAGA	AGCAATGCTA	4560
AGTAATATTC	TCACTTTTGC	TGATCAGGCA	AATCATGCTT	TAGAGTTGGG	TTCTTACTTT	4620
ACAGAGATTA	TGGAAGGTAC	CGTGGCAGTT	CGAGACCGTA	TGGCGAGAAG	TAAATATGTT	4680
TCAGAAGATA	GATTAGATGA	AATCAAAATT	ATATCAAATG	AGATTACACA	TCAAATTCAT	4740
TTGATATTAG	AAACAGGAGG	TCTATAAATG	AGTGTTATAA	AAGAATACAG	AACTGCTAGT	4800
GAAGTTGTTG	GGCCTCTTAT	GATTGTTGAA	CAAGTAAATA	ATGTGTCTTA	CAATGAGTTA	4860
GTTGAAATTC	AACTTCATAA	TGGAGAAATT	CGTCGTGGAC	AAGTTTTAGA	GATCCACGAA	4920
GATAAAGCAA	TGGTTCAGCT	TTTTGAAGGA	TCTAGTGGAA	TAAATTTAGA	AAAGTCTAAA	4980
ATTCGTTTTG	CTGGTCATGC	ATTAGAATTG	GCTGTATCTG	AGGATATGGT	TGGTCGTATT	5040
TTTAATGGGA	TGGGAAAACC	AATTGATGGT	GGACCAGATT	TAATTCCAGA	GAAATATTTA	5100
GATATTGATG	GTCAAGCTAT	TAATCCTGTA	TCTAGAGATT	ATCCAGATGA	ATTTATTCAG	5160
ACAGGGATCT	CCTCTATTGA	TCATTTGAAT	ACTCTTGTAC	GTGGTCAAAA	ATTACCAGTA	5220
TTTTCAGGTT	CGGGCTTACC	TCATAATGAA	TTAGCTGCTC	AGATAGCAAG	ACAAGCGACT	5280
GTTTTAAATT	CTGATGAAAA	TTTTGCGGTT	GTATTTGCAG	CAATGGGTAT	TACTTTTGAA	5340
GAAGCTGAGT	TTTTTATGGA	AGAACTCAGA	AAAACAGGAG	CGATCGATCG	TTCGGTTTTA	5400
TTTATGAACT	TGGCAAATGA	TCCTGCAATT	GAGCGTATTG	CAACTCCCCG	CATTGCTTTA	5460
ACTGCGGCAG	AGTATCTAGC	TTTTGAAAAA	GATATGCACG	TTCTAGTTAT	CATGACGGAT	5520
ATGACTAACT	ATTGTGAAGC	GTTACGTGAA	GTCTCGGCAG	CTCGCCGTGA	AGTTCCAGGG	5580
AGACGAGGCT	ATCCGGGATA	TTTATATACA	AATTTATCAA	CTCTATACGA	AAGGGCTGGT	5640
CGCTTAGTTG	GTAAAAAAGG	TTCGGTGACA	CAGATTCCTA	TTTTAACAAT	GCCAGAAGAT	5700
GACATAACAC	ATCCAATTCC	TGATTTAACT	GGATACATTA	CTGAAGGGCA	AATTATTTTG	5760
TCGCATGAGT	TGTATAATCA	AGGTTATCGT	CCACCAATCA	ATGTTTTACC	TTCTCTCTCT	5820
CGATTAAAAG	ATAAGGGATC	TGGAGAAGGT	AAAACTCGTG	GAGATCATGC	TCCAACTATG	5880
AATCAACTGT	TTGCAGCCTA	TGCCCAAGGG	AAAAAGGTTG	AAGAGTTAGC	AGTAGTATTA	5940

GGAGAATCGG	CTTTATCTGA	TGTAGATAAA	TTGTATGTGA	GGTTTACAAA	GCGTTTTGAA	6000
GAAGAGTACA	TAAACCAAGG	ATTTTATAAA	AATCGAAATA	TAGAAGATAC	GTTGAATCTT	6060
GGGTGGGAAT	TACTATCAAT	TCTTCCTAGA	ACAGAGTTAA	AACGTATCAA	AGATGATTTG	6120
CTTGATAAAT	ACTTACCTTT	GGTAGAAGTT	TAATCCGGAA	ATGGAGTGAT	TATCTATGGT	6180
ACGTTTGAAT	GTAAAACCAA	CTCGTATGGA	ATTGAATAAC	TTAAAGGAAC	GTTTGACAAC	6240
AGCTGAACGT	GGACATAAGT	TATTAAAGGA	TAAAAGAGAT	GAATTGATGA	GGCGATTTAT	6300
TTCTTTGATT	CGTGAGAATA	ATCAACTTCG	GAAAGAAGTG	GAAAGTTATC	TAATTGATAA	6360
TCTAAAATCC	TTTGCAGTTG	CTAAATCATT	AAAGAATTCT	CAAATGGTGG	AGGAATTATT	6420
TTCAATTCCA	TCGAAAGAAA	TTGAATTATT	TGTTGAGAAA	GAAAATATCA	TGAGTGTAAC	6480
AGTTCCTAGA	ATGCATATGA	ATATTACTTC	TCAAAATGAG	AACAGTGAAT	ACAGCTATTT	6540
ATCTTCTAAT	AGTGAAATGG	ATGATGTATT	TGCTACAATG	AATAGTTTAA	ТТТАТАААТТ	6600
ACTAAGACTG	GCAGAAGTTG	AAAAAACGTG	TCAGTTAATG	GCTGATGAAA	TAGAAAAAAC	6660
ACGTAGACGT	GTAAATGGTT	TAGAATACTC	GATTATTCCA	AACTTGTCGG	AAACTATTCA	6720
PTATATAGAA	TTGAAACTAG	AGGAGGCAGA	AAGAGCCAAT	TTAGTTCGTA	TTATGAAAGT	6780
GAAGTAGATC	CTTTATTTAG	ATTATTAATT	AGATGAACAA	ATATCAGCTT	GGATAAGGCT	6840
TTAAGCCTTT	CTAAGCTTTT	TTTATTGACA	GTATCAGGAT	ATCTTTTTCA	AAATTTTGGT	6900
TTGTTAGATA	ATGAAAATGT	TTCTACTAAT	CTAGATTTAG	GATTAGTAAA	TCGTAAATGT	6960
AATTATATAG	AAAGTAAGCG	CGTCATAACA	AGGTATCTAT	CATTCATGGA	GCTCCTCCTG	7020
PATACTATTA	GTAAAGTAAA	ACTATTGGAG	GATATTTTAA	TGCCACAACC	TATTGTTCCT	7080
GTAGAGATTC	CACAATCTCG	TCGTTTTGAT	TCTAAAAAGA	GAAATGATAT	TCTGCTTAAA	7140
ATTCGTATTG	GCAAGCTTGA	AGTAAGTTTT	TTTCAATCTC	TCAATCTCGA	AATGGTAGAA	7200
CAGCTTTTGG	ATAAGGTGTT	GCTCTATGAC	AATTCATCTA	TCTAGCCTAG	GGGAGGTCTA	7260
PCTCGTGTGT	GGGAAAACTG	ATATGAGACA	AGGAATCGAT	TCACTGGCTT	ATCTGGTTAA	7320
AACCCACTTT	GAATTGGATC	CTTTCTCCGG	TCAAGTCTTT	CTCTTTTGTG	GTGGACGTAA	7380
AGACCGCTTT	AAAGTCCTTT	ACTGGGATGG	TCAAGGATTT	TGGCTACTAT	ATAAACGCTT	7440
rgagaacggc	AGATTGATTT	GGCTAAGTAC	AGAAAAGGAT	GTCAAAGCTC	TCACACCAGA	7500
ACAAGTAGAC	TGGCTTATGA	AGGGCTTTTC	TATCACTCCA	AAAATATAGT	AGATTGAAAC	7560
PAGAATAGTA	CACCTCTGCT	TCTAAAACAT	TGTTAGAAAT	CGATTTTACT	GTCCTGATCG	7620
ATTTGTCCTG	TTCTTATTTC	ATTTTACTAT	AAATCCATCA	GAAAGTCGTG	ATTTCTATTG	7680

			926			
AAATGAGGAC	TTTCTTTTTA	TACTCATCTG		GCATTCTAGT	CCATCTCCGA	7740
TTAACGATGG	ACTTTATCAC	CTCCTTCTCC	AGTCCTTGTA	TAACATCTTG	GAGTTGATTC	7800
ATGACATCTT	CCAAAGTTTA	AAAGGCTTTA	TTCTTAAATC	CACGTTTACG	AATCTCTTTC	7860
CACACTTGTT	CAATGGGGTT	CATCTCTGGT	GTGTATGGAG	GAATAAATGC	AAAGCCAATA	7920
TTAGTCGGAA	TCTTTAAGGT	ACTTGATTTA	TGCCATATAG	CATTGTCCAT	AACGAGTAAA	7980
AGATAATCAT	CTGGATAAGC	TTGTGAAATC	TCCTATTCCT	AAAGCCCCTT	TAGCGCATAA	8040
CTTTGGCTCA	GCTTCTATTA	TCGCTCACAC	CATCCATCAG	AAGTTTAATC	TGAAGGTACC	8100
CAATTATCGC	CAAGAAGAAG	ATTGGGCTAG	GATGGGTTTA	CCAATCACAC	GTAAGGAAAT	8160
CTCTAATTGG	CATATCAAGG	CGAGTCAATA	CTATTTGGAG	CCCCTTTATA	ACCTCTTGCG	8220
AGAGAGACTA	TTGACTCAGC	CCTTACTTCA	TGCGGATGAA	ACTTCTTATA	GGGTGCTAGA	8280
GAGTGATAGT	CAGCTGACTT	ACTATTGGAC	TTTTTTTCA	GGTAAAGCAG	AGAAACAAGG	8340
GATTACGCTT	TACCACCATG	ATCAGTGTCG	AAGTGGTTCA	GTAGTACAAG	AATTCCTAGG	8400
AGATTATTCT	GGCTATGTGC	ATTGTGATAT	TTTGCGGCAG	TAACTTAGGA	CTTTAGTCCT	8460
CTAGTTCTGC	CTATGCGATA	GCAGTCCAAG	GTTTAGGAGC	AAGGCGACGC	TAAGCTTGGT	8520
AAACTTCGAA	CCGCTCGTCT	GCTTATCGTC	AACTGGAAGA	AGCTGAACTT	GTTGGATGTT	8580
GGGCGCATGT	GAGAAGGAAG	TTTTTTGAAG	CGCCCCCCA	AGCAAGCGGA	TAAATCATCC	8640
TTAGGAGCTA	AAGGTTTAGC	TTATTGTGAT	CAGTTATTTT	CCTTGGAAAG	AGACTGGGAG	8700
GCTTTGCCAG	CTGATGAACG	ACTACAGAAA	CGTCAAGAAC	ATCTCCAGCC	CTTAATGGAA	8760
GACTTCTTTG	CTTAGTGCCG	GCGTCAGTCA	GTTTTAGCAG	GTTCAAAACT	AGGAAGGCA	8820
ATTGAATACA	GCCTCAAGTA	TGAAGAAACC	TTTAAGACCA	TTTTGAAAGA	CGGACATCTG	8880
GTCCTTTCCA	ATAATCTAGC	TGAACGCGCC	ATTAAATCAT	TGGTTATGGG	ACGGAGTAAA	8940
AGAGTCCAGT	GGACTCTTTT	AGCCTAAGCT	CAGTTTAAAA	AAGCGAGGGT	GGTTATTTTC	9000
TCAAAGTTTT	GAAGGAGCTA	AAGCAAGAGC	TATTATTATG	AGTTTGTTGG	AAACAGCTAA	9060
ACGTCATCAA	TTAAATAGCG	AGAAATATCT	ATCCTATCTT	CTAGAATGTC	TTCCAAACGA	9120
GGAAACTCTC	GTAAACAAAG	AGGTTTTAGA	GGCTTATTTA	CCATGGACTA	AAGTTGTACA	9180
AGAAAAGTGC	AAATAAGAAA	TCTCCAGATT	AGGAACTATC	CGTGAGTTCT	CCAGTCTGGA	9240
GATTTTTCAA	TAGACTTCCT	GCGAAACAAA	ATATGGTATA	ATAGTTCTAT	GAATGATGAA	9300
GCAAGTAAAC	AACTAACCGA	TGCACGATTT	AAGCGTCTTG	TTGGTGTTCA	ACGCACGACT	9360
TTTGAAGAGA	TGTTAGCTGT	АТТАААААСА	GCTTATCAAC	TTAAACACGC	AAAAGGTGGA	9420
CGAAAACCTA	AATTAAGTCT	AGAAGACCTT	CTTATGGCCA	СТСТТСААТА	TGTGCGAGAA	9480

TATCGAACTT	ATGAACAAAT	TGCGGCTGTT	TTTGGTATTC	ACGAAAGCAA	CTTAATCCGT	9540
CGGAGCCAAT	GGGTTGAAGT	AACTCTTGTT	CAAAGTGGTG	TTACGATTTC	AAGAACTCCT	9600
CTCAGTTCTG	AGGACACGGT	AATGATTGAT	GCGACGGAAG	TAAAAATCAA	TCGCCCTAAA	9660
AAAAGAATTA	GCGAATTATT	CTGGTAAAAA	GAAATTTCAC	GCTATGAAGG	CTCAAGCGAT	9720
TGTCACAAGT	CAAGGGAGAA	TTGTTTCTTT	GGATATCACT	GTGAACTATT	GTCATGATAT	9780
GAAGTTGTTC	AAAATGAGTC	GCAGAAATAT	CAGACAAGCT	GGTAAAATCT	TGGCTGACAG	9840
TGGTTATCAA	GGGCTCATGA	AGATATATCC	TCAAGCACAA	ACTTCACGTA	AATCCAGCAA	9900
ACTCAAACCG	CTAACAATTG	AAGATAAAGT	СТАТААССАТ	GCGCTATCTA	AGGAGAGAAG	9960
CAAGGTTGAG	AACATCTTTG	CCAAAGTAAA	AACGTTTAAA	ATGATTTCAA	CAACCTATCG	10020
AAATCATCTA	AACGCTTCGG	ATTACGAATG	AATTTGATTG	CTGGTATTAT	CAATCATGAA	10080
CTAGGATTCT	AGTTTTGCAG	GAAGTCTATT	АТСАААААТА	CCATCAAGAT	TATATAAGAT	10140
TGATACAGGA	AAAGTTTTAT	TTGATGGTGT	АААТАТТААТ	CAAATAGATA	ААААААТАТТ	10200
AAGTCAAAAT	TTAGGAGTAG	TTCCACAGGA	TTCATTTTTA	TTGAACCGAA	GTATTCTTGA	10260
TAATATAACT	TTAAAGCACG	AAGTTACTTC	ACAAAAGATA	GAGGAAGTTT	GTAAAGCAGT	10320
TCAAATCTAT	GATGAAATCA	TGGCTATGCC	GATGAAATTT	AATACTATCA	TCTCAGAGAT	10380
GGGGTCAAAT	ATTTCAGGTG	GGCAAAGGCA	ACGGATAGCA	CTGGCACGTG	САТТААТААА	10440
TAATCCTAGT	ATTGTAATTT	TAGATGAAGC	AACTAGTGCA	TTAGACACTA	TTAATGAGGA	10500
AAGAATAACA	AAGTATATAC	AAAGTCAGGG	CTGTACTCAA	ATAATTGTAG	CTCATAGATT	10560
GTCAACGATT	AAGGATGCGG	ATGTTATTTT	TGTAATGAAA	GGTGGTAAGA	TTGTTGAGTC	10620
AGGAAATCAT	AAGTACTTAA	TGGATCTTGG	TGGAGAGTAC	TACAGCTTAT	ATACAAAAAG	10680
GAAATGAGGT	GTAAAGAAAA	TGAAGAAAGA	AAATGAATAT	GTAATTTTAA	CAACAGCCTC	10740
ACTAGGGGTG	ATGATTGGAA	TAGTGTTTGC	AATTTTTTTA	GATTTTCCAG	TTGAATATGG	10800
ТАТТТСТТТА	GGCTTGTTGA	ATGGAATAGT	ATTGGGTTCG	CTGATTGTTT	ACAAAAACAA	10860
TAAGAATTAA	GCATAATTTT	TTGCTGTAAA	CTAAGGAGTA	GAGATGGCTA	TAGTTGAAAT	10920
ТАТАААТСТА	ACAAAAAGCT	TTAAAGATAT	TGAAGTTATT	CATAACACTT	AAATAATAGA	10980
GCAACTACAG	TAGTAGCTTA	AAAACATGAT	TAAATCGCTA	TTCTTAGGAG	TAGCGGTTTT	11040
TCTTTTTGTT	TAATACTCTT	TGAAAATCTC	TTCAAACCAC	GTCAGCTTTG	CTTTACCGTA	11100
CTCAAGTACA	GCCTGCGGCT	CGCTTCCTAG	TTTGCTCTTT	GATTTTCATT	GAGTATAAAA	11160
AGGGTCAAGT	AAGTATAGTA	AATTGAAATA	AGATATGAAC	AAATCGATTA	GAAAAGTCAA	11220

ATTAATTTCT	AGAAATATGT	TAGAAATTGG	928 TTTGAATTCC	GCAATCAATT	TGTTCAGTTT	11280
TTATTTCATT	TCATTTTATT	TAATTAGATT	TTCCAATTTT	TTAATTCAAG	CTAAAAATCC	11340
CCAATCGTAG	TGATTGAGGA	TTGAGTAAAT	AAATCTTAAA	CAATACCTTG	TGCAATCATG	11400
GCATTTGCTA	CATTTTCAAA	GGCAGCAATG	TTAGCTCCTG	CAAGGTAGTC	TTTATCAAGA	11460
CCGTATGTTT	CTGAAGTCGT	TTTAGCTGTG	TTGAAGATGT	TTGTCATGAT	GTCTTTGAGA	11520
CGGCCATCAA	CTTCTTCACG	AGTCCATGAG	AGGCGAAGAC	TGTTTTGGCT	CATTTCAAGA	11580
GCTGAAACGG	CTACACCACC	AGCGTTGGCA	GCTTTTGCAG	GTCCGTAGAA	GATACCATTT	11640
TCTTTGTAAA	CTTTGATGGC	ATCAAGGTCG	CTCGGCATGT	TGGCACCTTC	AGATACACAG	11700
ATAACGCCTT	GAGCAACCAA	ACGTTTAGCT	GCTTCACCGT	TGATTTCGTT	TTGAGTGGCA	11760
CATGGAAGAG	CAATGTCATA	GTTTCCAGCG	TAAGTCCATA	CAGTACCTTC	GTGGTAGGTT	11820
GCAGTTGCTT	TTTCAGCTGC	ATACTCAGTC	AAACGAGCAC	GACGTTTTTC	TTTAACATCA	11880
ACCAAAAGAT	CGAAGTCGAT	ACCATTTTCA	TCGATGACAT	AACCATTTGA	GTCAGAAACA	11940
GAAATAACAG	TTGCACCGAG	TTCAGTTGCT	TTTTGAAGAG	CATATTGAGC	AACGTTACCA	12000
GAACCTGAAA	TAACGACTTT	CTTACCAGCA	AAGCTGTTAC	CGTTAGCTTT	GAGCATTTCT	12060
TCAGTATAGT	AAACCAAACC	GTAACCAGTT	GCTTCTGGAC	GAATCAAGCT	ACCACCAAAT	12120
CCAAGAGGTT	TACCAGTCAA	GACACCAGCA	TCAAATTGGT	TAAGACGTTT	GTATTGACCG	12180
TAAAGGTAAC	CAATTTCACG	TCCACCAACA	CCGATATCAC	CAGCAGGTAC	GTCAAGTGAT	12240
GGTCCGATGT	GTTTTTGCAA	TTCAGTCATG	AAGCTTTGGC	AGAAGCGCAT	CACTTCAGCA	12300
TCTGTTTTAC	CTTTAGGATC	GAAGTCTGAT	CCACCTTTAC	CTCCACCGAT	AGGAAGTCCA	12360
GTCAAGACAT	TTTTAAAGAT	TTGTTCAAAT	CCGAGGAATT	TCAAGATCCC	TTGGTTTACA	12420
GTTGGGTGGA	AACGAAGTCC	ACCTTTGTAT	GGTCCAACAG	CTGAGTTGAA	TTGAACACGG	12480
TAACCACGGT	TTACTTGAAT	TTTTCCATCA	CGGTCAACCC	AAGGAACACG	GAAAGAAACC	12540
ACGCGCTCAG	GCTCAGTAAT	ACGTGCCAAG	ATATTTTCTT	CGATATACTC	AGGGTGTTTT	12600
TCAAATACAG	GTTCTAAAGT	GTTGAAAAAT	TCTTCAACAG	CTTGGAGGAA	TTCAGCCTCG	12660
TGCCGG						12666

## (2) INFORMATION FOR SEQ ID NO: 138:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 3083 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

929

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 138: AGCAACTGTT GTGAACCAAT TCCGATAAAT TCCAAGAATT GGTTAATAGA GCCATTTTGA 60 CCAAAAATCC CGATAAAAGC ATAGGCTTTA AGGAGCAAAT TGATCCAGGT AGGAAGGATA 120 ATCAGCATGA GCCAGAGTTG ACGGTGTTTG AGACGGGTCA AAAAGAGGGC CGTCGGATAA 180 CTGATAAGCA GTGCCACAAA GGTCACAATG CCTGCATAAA GCACTGAGTT GAAACTCATT 240 TTAAGATAGG TCAAGTTTTG TGACGCAAAG TAAGATTTGT AATTTTCTAA ACTGAACTGG 300 CCTTCGATGT TGAAAAAGGA TTGACCGAAA ATCAAGACCA AGGGTGCCAA TACAAAGAGC 360 GCAATCCAAA GCATGTAGGG TACTACAAAG AGTTTAGAGC TTGTTTTCTT CATCTCTTTC 420 CTCCTCGATT GCATTGATCA AACCTGCTTC TTGCTCTTCG ATTTCTACGT ACTCCTCAAT 480 ACGAGCATCG AACTCTTCTT CGGTTTCATT GAGACGCATG ATGTGGATGT CTTCTGGTTC 540 AAAGTCCAGA CCGATTTCCT CACCCACGAT AGCCTTACGG GTTGAGTGGA TCATCCATTC 600 ATTTCCAAGT TCGTCATAGG CGATAATTTC ATAATGAACT CCACGGAAAA GCTGGGTATC 660 GACCTTAACT TGGAGCTTGC CTTCTTCAGG AAGGGTAATG CGCAAGTCCT CTGGACGAAT 720 AACGACCTCA ACAGGTTCAT TTGGCTTCAT CCCACCATCA ACCGCTTCAA AGCGTTTGCC 780 GTTAAATTCG ACCAAGTAGT CCTCAATCAT GGTACCTGGC AAGATGTTTG ACTCCCCGAT 840 AAAGGTGGCA ACAAAGTGGT TGATTGGCTC ATCGTAGATG TCCACAGGGG TTCCAGACTG 900 GACAATCTCG CCATCATTCA TAACGAAAAT CCAGTCACTC ATGGCAAGAG CTTCTTCCTG 960 ATCGTGAGTG ACAAAGACAA AGGTAATGCC CAATCGTTGT TGTAATTCAC GCAATTCGTA 1020 CTGCATGTCT GTTCTCAATT TCAAGTCCAG CGCTGATAAA GGCTCGTCCA ACAAGACCAC 1080 ACGGGGTTGG TTGATGATAG CACGGGCGAT GGCCACACGC TGACGTTGTC CTCCAGAAAG 1140 TTTGCGGATG GAACGTTTTT CATAACCTTC CAACTGAACC ATCTTGAGAA CTTCCGCTAC 1200 ACGCTGCTCG ATTTCTTTCT TATCAATTTT ACGCAAGCGA AGTGGAAAGG CAACATTTTC 1260 AAACACATTC ATATGTGGGA ACAAGGCATA GGATTGGAAG ACGGTATGTA CGTCGCGCTT 1320 GTTGGTTGGA ATATCATTGA TACGAACACC GTCTAGCATG ATATCTCCTG TCGTCGCATC 1380 CAGTAAACCT GCAATAATGT TTAGGATAGT TGATTTCCCC GAACCAGATG CACCTAGAAG 1440 GGTGTAGAAT TTCCCTTCTT CCAACTCAAA GTTGATGTCT TTGAGAACCT TGGTGTTGCT 1500 GTCTTCAAAA ACTTTAGAGA CGTTTTTGAA TTCGATAATT GGCTTTTTCA ATTGGCATAA 1560 ATTCCTTCTT TTTCATAGAT TAACCGATCG GGGCTCTGTC AGGTCCCCAC TACCTCTTGC 1620 AGGGAGTAAA ACCACCTGCA TACATCTTCG CTACCGATAG GCTTTCACCC AAGATCCGGA 1680

			930			
CTTCTCTTTC	AAGCGTAATA	CCTGAGTGTT		TTCGATAACC	GATTGGATCA	1740
AGTCCTCGTA	GTCTTTGGCC	GTTCCATCTG	CGACATTGAT	CATAAATCCT	GCATGCTTTT	1800
CTGACACTTC	TACGCCACCG	ATACGATAGC	CTTTCAAGCC	AGCTTCTGAA	ATTAACTGAC	1860
CTGCAAAATG	CCCGACTGGA	CGCTTAAAGA	CCGAGCCACA	AGATGGGTAT	TCCAAAGGTT	1920
GCTTGAGTTC	ACGTAGGTGC	GTCAAGCGGT	CCATTTCCTG	CTTGATAACC	TGATGGGTTC	1980
CTGGAGCTAG	GGCAAATTTA	ACTGACAAGA	CAACTGCACC	AGACTCCTGA	ATAGCTGAAT	2040
GACGGTAACC	AAAAGCCAAG	TCTTTAGCAG	ACAGGGTTTC	GATTTCTCCA	TCCTTGGTCA	2100
AGACCTTACA	AGACTGCAAG	ATGTGAGCAA	TCTCGCCACC	ATAGGCACCC	GCATTCATAA	2160
AGACAGCACC	GCCAACGCTT	CCTGGAATAC	CACAAGCAAA	CTCAAAGCCA	GTTAAACTAT	2220
GACGGAGGGC	AATGCGAGTT	GTTTCAATCA	AGTTAGCCCC	AGCTTCTGCT	TCAATGGTAT	2280
AGCCATCAAC	AGAAACGTTA	TTGAGCTTGT	CACACAAGAT	GACAAATCCA	CGAATCCCAC	2340
CATCACGAAC	GATGATATTG	CTTGCATTGC	CAAGAACCAT	CCAAGGGATA	TTTTCTTGGT	2400
TGGCAAATTT	CACAACGCGA	GCCAACTCAA	AACGATTTCG	TGGAAAGACC	AAATAATCAG	2460
CCTCTCCACC	TACTTTTGTA	TAACTATAGC	TATGCAAGGG	TTCCTTAAAA	CGGATATCAA	2520
TTCCTTCTAA	GATTTCAAGC	ATTTTTTCTC	TTACAGACAT	GTCACTCTTC	CTTTTACAAA	2580
ATTCATTCCA	TTATACCATT	TTTAGAGACA	TTTGACGACC	АТАААААТАС	CTTGTTTGGA	2640
TTTTGCATAA	GAAAAAGAGG	TTCCCCCCTT	TTTATGATTT	TTTACAAAAG	ATTTCCTTGG	2700
TTCCATAGGC	GACCAGAACG	AGCTCCAGTG	CTAGAATCAC	TTCAACCAAG	ACTGGATTTG	2760
TCAACCAGCC	TACTTGGAAA	AGAGATGGTG	CCAGATCAAA	GAAGGCATGC	AAGCCATAGG	2820
CTGCTAGGAG	ATAAATCCAT	TTCTTCTGGC	GAACAGCTTG	GTAAACCCAA	ACTGTCAAAA	2880
GTAATTGGAA	ACCAAGCGCC	AAGATTCGCT	CAAAACCAAG	САААТАААТС	TGCCAGACCG	2940
AAAGTGACTG	AATGGTTTTT	AACATATTTT	CAGACAGTAA	TTGCATAACC	TGTGGATTC'r	3000
GAGTTTGAAC	TGCCGAAAGA	ACAATGTAAA	GATTGAGTAA	ACTAGTAAGG	CCTAGAAAAA	3060
TCAACTCCAA	GCCACCATGC	ccc				3083

## (2) INFORMATION FOR SEQ ID NO: 139:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 15363 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 139:

CCGGAGGATA	TTGACCACCA	CCAAAAGCAG	GGGGAAAATC	GAAATCAACC	AATAGTAGGC	60
TACTGCGACA	CTGGTCAACT	CACTATCTGA	TGCTTGATAA	TAATGCAAAA	AAGCTTTTAA	120
TAAAGGTTTG	TCTATCAGCT	CTTTCCACCA	CTTTTTCATG	TCATACTCCT	TCACTTATAA	180
TCTTATACTC	AATGAAAATC	AAAGAGCAAA	CTAGAAAGCT	AGCCGCAAGC	TGCTCAAAAC	240
ACTGTTTTGA	GGTTGTAGAT	AAGACTGACG	AAGTCGATCA	CATACATACG	GTAAGGCGAC	300
GCTGACGTGG	TTTGAAGAGA	TTTTCGAAGA	GTATTAACTA	ATTTCTTCTT	ACCAATTCCA	360
CCATATCATA	CGGTAGGGTA	TTGGCAGCTT	CCTTCAAGGA	ATAGTTCTCT	AAGTTATTTA	420
CATTTTGTCG	TAATTTCTTG	GCATACTTAG	TCGTAATCAA	TCGTTTTTCT	TCGTATTCGA	480
AAATCAACTT	GCGCTCCAGA	TAATAGCCTC	TCAGCATTTC	ATCGATATTG	TTGGGTTTGA	540
CACGATTGAT	AACCCGTTCG	ACAAAGGCAC	CACTGCTGAT	AATAGCTGTT	TCTCGAAGAC	600
GAGACTCCTG	САТААААСТА	ATCAAAGAGC	GTCTGTAGAC	TCCCTTCAGG	TTTTCCAAAC	660
TTTCAATAAT	CATCTCTGTA	TTGGCAAGAT	AGAGCTCTGC	AATTTGGTCA	TAATCAAGAG	720
CACGGAGACG	GCTTTGCTCC	TTGTTCTTCC	AGCTACGGAA	GGTCTTTCCG	AGAGTAAAAA	780
CTTCATGAAG	GAGAAAACGT	AAAATCCTCA	AGGAAACAAG	AAAATAATAG	GTCAGTCTTG	840
AGGCAAGTTT	ACGATTGATT	CCTTGTTCTA	TATTTTTCAG	ATAACGTTGG	TAAACTCGGT	900
AAGCACGATT	GCTAATGTTC	CCCTCTTCAT	AGGCCTGTTC	CAAACCATCA	CTTTCAATAC	960
TAAGAATCAA	GAGTTTCAAA	GCAGCCCAGT	CTTCTTGATC	ATCCTGGTTT	TCTTGGCTTA	1020
AAATGAGATT	TTCAATACGT	CCATGATAAT	TGTCAATAGC	CGCATAGAGG	GGAAGTTTAT	1080
TTCTGGTGTC	TTCCAACTCT	TTTTCCAACT	CTAGCGTTAC	TTCATTCAAA	ATGGCGATAT	1140
GCATAAGATA	ATCCTTGCTT	TCTTCCTCTT	CATCAGAAAG	ATGAGGCAAG	ACCAAGAGAC	1200
CTGTTAAAAA	GCTAACAAGC	GTCACACCTG	CAACAAGGAA	AAGCAAAAGA	GGATACTCCT	1260
GTTCTAGATT	ACTTGGTATC	AAGAGAATCG	TAGCAATCGA	CACCGTTCCC	TTAACACCTG	1320
AAAAGGTCAA	GAGAAACATG	TCCTTCATAT	ACTTATTTAG	CTTTTTCTTG	AGGCGTCGGG	1380
TTCTATAGGC	ATAATAGCCA	TAGATCATAA	TAAAACGAAT	GACAAAAAGG	ACAAAGGTAA	1440
GGGCGATAAG	AGATAGCAAT	AAAAGTAGAG	GATTATAGAT	TGGATTGGTC	AAGATAGGTT	1500
CTGCTATCAT	TTCCAACTCC	ATCCCTAAAA	TCACAAAGAC	AGAACCGTTG	AGCATAAAGG	1560
TCACTGTATG	CCAGACCGTC	TCGGTCACCG	TATCCACTTG	GGCTTCGAGG	AGCGTGATTT	1620
TCTTGAAGCG	ACTTGCCTTT	AAAATTCCAG	CAACTACGAC	GGCAATAATA	CCTGAAACAT	1680
GAACTTCTTC	TGCCAGAAAG	AAGGTCACTA	GAGGCAAACT	CAATTCTAAT	AAAAGTTCAC	1740

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TGGCAATATC	CGTTGCGCGC	ACACTTAGCA	AGAAGGTATG	GAGGAAGCGG	TTGGTCATGG	1800
CTGTTAAAAA	ТССААТТААА	AAACCGCCTA	GGATTGAAAA	GATGAGCGAA	CTGCTAGCTT	1860
GCCCCAGAGA	AAAAGCTCCA	GTTGTCCAAG	CTGTCAAAGC	TACCTGAAAA	GCCACCAAAC	1920
CAGAAGCATC	ATTCAAGAGT	CCTTCGCCCT	TAAGAATATT	GGACACGCGC	TTAGGAAAGC	1980
TAAAACGCTC	CGAAAGAGAG	GCAAAGGCCA	CCAAGTCCGT	AGGACCAAGG	GCTGCCCCAA	2040
CAGCCAAGCA	AGCTGCCAAG	GGAAGGCTGA	ACCAAAGAAG	ATGGGCCAAG	CCACCCAAAC	2100
TCAGGGTCGA	GATAAAAATC	ACTGGAAATA	TGAGATAAAC	AATGATTCGC	CAGTGTTTTA	2160
AAATAGCCGT	AACATCTGCT	TCTTCAGCCT	CTCGGAAAAG	CAAGGGTCCG	ATAACCAGTG	2220
CCAAAAACAA	CTCCGTATTA	AGGTGAAAGT	CAGTATTGGG	TAAAAAGAGA	CCAATCACAA	2280
TTCCCAAAAG	AATTTGCACC	AAAGGGAGAG	GCAAAAAGGG	CAGGAGCTTA	TTGGTTGTAC	2340
TTGAGACAAT	CAAAACCAGT	AAAAATAGGA	TGAGGTAAAT	CAGTAATTCC	ACGCACGTCC	2400
FCCTTAATCT	TTTTTACAAC	AGGATTCAAA	TATCTCCTTC	TGCTCTTTGA	TTTTTTGGTC	2460
AATCTTGGAA	CAGTCTTTGT	GCTCAATTTT	TCTCTGGCAC	CGTTCCATTT	CAAGAGCAAC	2520
PAATTTTTTC	TTGATTTTAA	GCATTTTTTT	GCTCATATGC	GCTTGGTCTA	GCACGCCCAT	2580
CGCTCGTTCG	TGGTGGGTTG	ATTCAACAAA	ATTCTGGCGC	ATGGCATCCA	GCTTTTCGTG	2640
FAAGTATTGT	TTATCCATGT	CTGTATCTCT	CTAATTTTTC	AATCATCACT	AAAAACGGCG	2700
GGTTGTTGAC	TTGGTTTAAA	GTTCGGTAAA	TGGCAGCTGT	GTACTCTTGT	TGGTTCAACT	2760
GGATCACAAA	ATCCAAGACA	GCATCTCTCT	CGAGATCGCC	TCCTTCATGA	CCATAGTAAA	2820
PCATAATAGC	AATTCGTCCA	CCTTTGACAA	GTAAGCCACA	TAGCTTTTCT	AATGCCTCAA	2880
rcgttgtctg	CGGTCGGGTG	ATGACAGACT	TATCAGCTGC	CGGCAAATAG	CCCAGATTAA	2940
AAATCCCTGC	CTTAGCTTTT	ATCACAAACT	GGTCCAGTGT	CTCATGGCCT	TGCAAGATTA	3000
ACTGGGCATT	TGTCAAGTCA	GCCTGATGCA	AACGCTCTTG	GGTCTTTTCC	AAGGCTTGCT	3060
CTGAATATC	AAAGGCATAG	ACTTGCTTGG	CTAGCTTGGC	TAAAAAAAGC	GTGTCATGAC	3120
CATTTCCCAT	AGTCGCATCC	ACTACGACAT	CCTCTTTTGT	CACGACCTCA	GCCAAAAAAT	3180
CATGTGCCAT	CTCAAGTGGT	CTTTTCATTT	TCAAACTCCT	GTTTTACAGC	CTTGCATCCT	3240
TGAACACTTC	CACGACGTCG	CATCTCCATC	TCAATGCTGT	TGAGGACTTC	CCATTTATTG	3300
AGGCTCCACA	TAGGACCAAG	CAGCATATCC	CTAGGCGCAT	CTCCTGTAAT	TCGATGGATG	3360
ACGATATGTT	TGGGAATAAT	TTCCAGTTGG	TCACAGATGA	CCCTGACATA	TTCGTCCTGA	3420
CTCATCAATT	GTAAACGCCC	CTCATGGTAA	TCTCGTTGCA	TACGAGTATT	TGTCATAAGA	3480
GGAGCAAAT	GCAGTTTAAT	CCCTTGAATA	TCGTTATCCG	TGACACAACG	GCGGACATTT	3540

TCAACCATCA	TCTCATGGGT	TTCACCAGGC	AAACCATTGA	TCAAATGGGA	AACAATCTCA	3600
ATTTTTGGAT	ACTTTCTCAA	ACGCTTGACC	GTTTCCACCT	ACAATTCATA	AGAATGCGCA	3660
CGGTTAATCA	GGTCAGAGGT	TGCTTCATAA	GTAGTTTGCA	AGCCCAATTC	AACCGTCACA	3720
TGCATGCACT	CCGATAACTC	AGCCAAATAT	TCGATGGTTT	CGTCTGGTAA	ACAGTCTGGG	3780
CGCGTTCCAA	TATTGATTCC	TACCACACCT	GGCTCATTGA	TAGCCTGTTC	ATAACGCTCT	3840
CGAATAACTT	CCACCTTTTC	ATGGGTGTTG	GTAAAATTTT	GAAAATAAAC	CAGATACTTC	3900
CGAACATCCG	GCCACTTGCG	GTGCATAAAG	TCAATTTCCT	TATAAAATTG	CTCACGGATA	3960
GGCGCATCCG	GTGCCACAAT	GGCATCTCCA	GAACCAGAAA	CCGTACAAAA	AGTACAGCCC	4020
CCATGAGCCA	CAGTCCCATC	ACGATTGGGA	CAATCAAATC	CCGCATCAAT	AGGGACTTTA	4080
AAAGTCTTTT	CTCCAAAGAG	TTTTCGATAA	TAATCATTCA	AGGTATTATA	AGATTTCATG	4140
ACTTTCATTA	TAACAAAAAT	CACCCACAAT	CTCAAAAGCC	TGACTTTCCT	ATAAATTCCT	4200
CTGTTTCTCG	TTTCCATTAG	CCTTTTTTTA	TGATACAATA	TGGGTATGAT	TTTAATGAAA	4260
TTAGCATCTA	TTTTATTATT	GATACTGACC	TTAGTCGTCT	GCATTATCCT	AACCAAACTT	4320
TTTAGATTAA	AAAAACTAGG	ACGAAACTTT	GCGGATTTGG	CTTTTCCAGT	CTTGGTATTT	4380
GAGTATTACT	TGATTACAGC	TAAAACCTTT	ACCCATAATT	TCCTCCCTAG	ACTGGGGCTA	4440
GCCCTCTCGA	TCCTAGCCAT	TATTCTCGTC	TTTTTCTTCC	TTTTGAAAAA	ACGCAGCTTT	4500
TACTACCCTA	AATTTATCAA	ATTCTTCTGG	CGTGCAGGAT	TCTTATTAAC	CCTTATCATG	4560
TATATAGAAA	TGATTGTTGA	ATTGTTCTTA	ATGAAATAGT	CGAATCCCTA	AGCATTTTCT	4620
AGGGATTTTT	GCTTTCTCTA	CAAAATAGTA	TAGACAATAA	CACTATACAA	TTTTATACAA	4680
AGAAAAGAGT	CTGGGACAAT	AGTCTCTTAT	ATCCAAAAAG	GCAACGGATT	TGCCGTTGCT	4740
TTTTTGGATG	GTTACGATAG	TCTTGGTAAA	ATAGAATTGC	CCAATAAACC	ATTTAGAAAG	4800
GCTATCCCAT	GCATATTCAC	TATAACACAA	ATCAAACAAC	TTTACCACTA	GAAATCAGTT	4860
CCTTCTTACC	ACAAGATCAT	CTCGTTTTTA	CTATTGAAAA	AGTGGTGAAT	ACCTTGGAGG	4920
AACGTCACTT	CTACACCTCC	TATCATGCCT	TTGATCGCCC	GTCTTATCAC	CCTAAAATGC	4980
TTGTATCTAC	TCTTCTATTT	GCCTATTCAC	AAGGGATTTT	CTCTGGTCGA	AAAATTGAAA	5040
AATGGAAGAG	TTAGTGACCT	TAGATTGTTT	GTTTATTGAC	AGAACTAAGA	TTGAAGCCAA	5100
TGCCAACAAG	TATAGTTTTG	TGTGGAAGAA	AACGACAGAG	AAATTCTCCG	CCAAACTTCA	5160
AGAACAGATA	CAGGTCTATT	TTCAAGAAGA	AATCACTCCC	CTTCTGATTA	AATATGCCAT	5220
GTTTGATAAG	AAACAAAAGA	GAGGGTATAA	AGAGTCAGCT	AAAAACTTAG	CGAATTGGCA	5280

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CTATAATGAC	AAGGAGGATA	GCTACACACA	TCCTGATGGC	TGGTATTATC	GTTTTCACCA	5340
TACCAAATAT	CAGAAAACAC	AGACAGACTT	TCAACAAGAA	ATCAAGGTTT	ACTACGCCGA	5400
CGAACCTGAA	TCAGCCCCTC	AAAAGGGACT	GTATATGAAC	GAACGCTATC	AAAACTTGAA	5460
AGCTAAAGAA	TGTCAGGCGC	TTTTATCTCC	CCAAGGTAGA	CAGATTTTCG	CTCAACGCAA	5520
GATTGATGTG	GAACCTGTCT	TTGGGCAGAT	AAAGGCTTCT	TTGGGTTACA	AGAGATGTAA	5580
TCTGAGAGGG	AAGCGTCAAG	TGAGAATTGA	CATGGGATTG	GTACTTATGG	CCAATAACCT	5640
CCTAAAATAT	AGTAAAATGA	AATAAGAACA	GGACAAATCG	ATAAGGACAA	TCAAATCGAT	5700
TTCTAACAAT	GTTTTAGAAG	TAAAAGTGTA	CTATTCTAGT	TTCAATCTAC	ТАТАСААТАА	5760
GAGAATGACT	CAAAATTAAA	AAGCTAGAGT	TCCACAATTG	GAAATATCTA	GCTTTTTTGT	5820
GGTTGAGAAC	TATTTTGTCT	CAGGCTCTTT	ATCTTCTATT	TAGGACAAGA	GTTTTTCTTT	5880
GGTCTTTAAT	GATAAAGAAG	GTATCAAAAT	TTCTAGTCTT	CTTTTTTACC	TTTAGTAACT	5940
ACTAATCCTG	CACTCAAACC	TAGAAGAGTT	AAACCTGCTG	CTACTGCTGC	TTGGCTTGCC	6000
GCACTACCTG	TACTTGGTAA	CTGGGCTTTA	TTAGTTTGAC	TAGCTTCACT	TGAATCAATT	6060
GGTTTTGTAT	CTGCTTTTTC	TGACACTTGT	GGTTTTTTAG	CTTCTTGAGC	TACTGGTTTG	6120
GTTCCAACCA	AGACGATGCG	GTCTGTCGGA	ACTTCTACCA	CTTCACGGAG	TTTTTCTTCC	6180
TTACTTCCAT	CAGGATTAAT	CGCTGTAAAG	ATACGTTCTT	TTCCAACTTT	TCCTTCTTGT	6240
TCTACACGAG	TTTCACCTAG	ATACAGTGTT	GAATCTTTTT	TCTCAACTGT	CTTGTATGCC	6300
AAATCTTTTT	CAACAAATTC	GATTTTTGGA	AGATCTTCTT	GTACAGCAGC	AACTGTCTTC	6360
TCAGAAACTG	GTTTTTCCTT	AGTCAAGTGG	ATACGGTATT	CCTTGACTTG	TTTTCCACTT	6420
TCTGAAACGA	GGCGAACAAG	TACTGGAAAG	CTATCTTCTC	CACTATCTAC	CACAGTTGAA	6480
GCTACTTGAT	TGTTTTCTTC	AACTGAGACT	TTTGGCCGTT	GACCTTTATA	GGTAATTTGA	6540
TAGTCTTGAC	GATTTTCAGC	GAAATCAGCA	AGTTCTTTTC	CATCTACAAG	AATCTTTGAT	6600
TGAGTGCTTT	CTTGAGGCAA	TTCACTTGGT	GCAAGGAAGG	TCATCTCAAT	CATCGCAACA	6660
CCGCTCTTAT	CTGCTTTACG	CTCCATACGC	CATCTCATAG	CTTTGGCTTT	GATAGCTTTA	6720
AATGTTACGT	TGATTTCATC	ACCAGCTGCA	ATGTCTTTAT	CCGCACGATA	AGGAACAGCT	6780
TCCCAATTTT	CTGGATTGTT	GAATGGATGG	TCTGCGTCGT	AGGCTTGGTA	GTTTGAATAG	6840
TAGGTTGGCA	CTTCAAACTC	TGGACCGACA	TAGCGTTCTA	AAACGAGTTT	AGATGGTGCA	6900
TCCGTACCAC	TATCTGCAAA	GAACTGAACT	TTTCCTTGTG	TAACAGTCCG	TTCTACAATC	6960
TTACCATTTT	CACGGAAAAT	CACACCCGCT	GATACTTCTG	GATTAGAAGA	TGGTGTTGGT	7020
GACCAGTTTG	TCCAACGACG	ATTTTCTGAA	TGATCTCCGT	CATTGAGATA	GTCAACGCGG	7080

TCATGAGAGT	TTTTGTCAAT	ATCATTGGTT	GCTGAAGCAA	AGGCCTGGTT	ACTGTTTTCA	7140
TCATAGTTAG	GGTTATCTGA	AAGAGTCTCA	CCAAGTTTGT	CTGTCACTCG	TACAGTGATC	7200
TCAGCAACAA	GGTTACTACC	AAGGACACGG	CCTCGAACAG	TAAATTGACC	TGCTTTTGTC	7260
AGATTTTCCG	CTGGAACTTC	TTCCCATTCA	ACTGTCAGGT	CTTTTGTTTC	GTAGCCGTCT	7320
TTACCTGTGA	AGTAAACTGG	AACCTTAGTC	GGCAATTCAA	GTGCTTGACC	TACTTGTAGC	7380
AAGCGAGCTT	GTTTAACCGC	AGCAACTGGT	TTATGAGAAA	GTAAGCTCTT	ATCCTTAGTG	7440
AAGTGCAGAC	GGTATTCTCC	TAAGATGTCG	CCATTTTCAG	CTTTCGCGAT	GACACGAACT	7500
GGCTCACCTT	CACGAACGCT	TGGAACGACG	GTAGCGAGAC	CATTGTTGCT	AACACTTGCT	7560
GTGACTGCCG	GAACTTTTCC	ATCTACAGAC	TCAAGGTAGT	AGTCTGTCAA	ATCAGGGTTG	7620
AAGTTTGCTA	AGTCTTTGCC	GTCAACTTGG	ATTCTTGTTT	GTCCTTGCTT	GGCTGCCGCA	7680
ACTTGTTTCG	CAAAGATTTG	TACCTCTGTG	ATAGACGTTC	CACGCTTGTT	ATCTGCTTTA	7740
ACCATGCGAA	TACGAACAGC	ATAGGTTTCA	ACTTTATCAA	AGCTAAAGTG	GTTCATTTCT	7800
CCAGCCTTGA	GTTGAGCAGG	GGCTTTTAGA	TTAGTAACTG	GTTTCCAGTT	GGCAGAATCA	7860
TTAAAGACAT	GGTCCTCATT	ACCAACAAAA	CTAGGGTTTT	TAGGAGCTGT	TGGGACAGTC	7920
TTACCAACAT	AATACTCAAT	CACATAAGAC	TTCGGTACAC	CAACTCCATG	GTCTTCATGG	7980
AATCCGACAC	TTAGATTATC	AACGGAGCGT	TTGCTCAAGA	TACCTGAATC	TCCAAACAGA	8040
ACACCGACTG	AAGCTTCTGG	ATTAGTACGA	TTCCAGTTTG	TCCAACGATT	GGCTGGTTGG	8100
TTATTGTAGG	AAATGAGCTT	GTCATTAACA	TTTGAAACTG	GGTCGCTTGG	ATTTGAGTCT	8160
GAAGCAAAGG	CAAGTGGCAA	TTCTGAACCG	GTCCATTGGT	CAGAAATGTT	TGCACCTTGC	8220
TCAGTTTGAG	CAGATACGCG	AACATGAAGT	TTAGTTGTTA	ATTGCGTACC	TTCTAAGCGA	8280
CCATTAACTG	TAAAGACACC	TTCCTTAGCG	TATTGCTCTG	GACGAATCGC	ATCCCATGCA	8340
ACCTTAGCTG	ATGAAACGTG	ACCATTTGAA	TCATATGTCC	GAACACTTTC	TGGTAATTGT	8400
GGTGCTTCTG	CGATTGGAGT	TGTCACACTG	ACTTCTTCAA	CTGAAACGAT	ACCTTCTACA	8460
GAGACTTTTG	CACGCGCTTC	AAGGTCAATT	CCTTCAACTT	TACCTAGTAC	TTCAAATGTT	8520
TGATAGGAGT	CTAGTTTTTC	TTTCGGAATA	GCTTGCCAAG	TGACTTTATG	AGTTTTAGGG	8580
AAACCTTTGT	CATACTCAAC	TGTTACTGTT	GCTGGAAGAC	TTGGTTCCTG	ATGCAAATCT	8640
GTCACTACAT	TTACAGGACG	GATGGATTGC	GCAATCTTCT	TCTCAGTATT	GGCTTGGATA	8700
GTGAGTTCAA	CTTGGTCTTT	AGCTCCCTCA	TATTCAGCGT	TCAGAGTGAC	TGCTCCTGGC	8760
TTATGCAACT	CAAGCATTCC	TTTACGAATT	GCGACTTCCC	CTTCACCACT	TGTAGAGAAG	8820

			936			
GTTACTTTAT	CAGCTGGTAA	TACAGCTTGC		GATAGTGAGC	TCGAACCGAC	8880
AATTTGACAG	TTTGGTCTTC	TTTGAGACTG	TCAGCTTTTT	CCACTTGCAA	GCTCAAGTGA	8940
GCAATTTTTG	GCGCTTCTTC	AAGGAATTGA	ATTGCATAGG	TTTGAAGAGG	GCCACCATCT	9000
TTAGGCTGAA	TAAAGATGCT	CGCACGCATG	CCGTTTGCTG	CGCTTGCTTG	AAGAACTGTA	9060
ACAGCTGCAT	TTTTAGCACT	TGCTGTGACT	TCTGGCAACT	TAGCTCCATA	AGCAAGAGTG	9120
CGGTATTGCA	TTGGTTTTTG	ACTAGTAAGA	CCTGTTACTG	CCTCACCACC	AACCGTTACA	9180
GTTGGTACTG	CAGGTGCCGC	AGGATTGCCT	TCTTCTACCA	CAAGGGTTGC	ATGAATTGGT	9240
TGACCTTCTA	AATAACCGGT	CGCTTGAATA	CGAGAACCTG	GAATTGCTAA	CTTAGCTTTA	9300
TCTTCTTCGG	CAATCTCCCA	CTTGTCCACT	TCATACTCTT	CAACACTTCC	ATCAATCAAA	9360
ACATAGGAAA	CAGATTTGTC	TACAGAATTC	AAGTCAGTAT	TTGGAGCAAT	ACGTTTCACA	9420
ACTGGTAGCT	CTGATTTAAG	AGCAATCACT	TCTACACGAG	CTTCTACTTC	TCGTCCGTCA	9480
GCCATACCTT	TCACCGTTAC	AATACCAGGC	TTGCTCACAT	CTACTGAAGA	CCAGGTTACA	9540
GGACGTTCTG	CACGGCTACC	ATCACTGTAT	ACAAACGGAA	CAGTGGTAGG	CATTTCAGGT	9600
GCCTCTCCAA	TAATGGTCTG	TACTTTTGGC	ACTTCTGTCC	CCAAAACAGT	CTTCTCTTGT	9660
CCTTCTTTCT	TACCAGTAAA	GACAGTGACT	TGGTTCGATT	TCAAGAGATC	AGAGTGGGCA	9720
GTCAGGGTGA	ATTTCCCTGC	TTGTTCAGTT	GATTTGACAA	TGGCAACACC	TTTACCATTA	9780
AATGCTTTAC	GAATCCAAGA	ACCATCTGCT	TGCGCCTTAT	AGCGTTCACG	GCTGGCTTGT	9840
TCTCCGTTAT	CTACACCGAC	CAGTTGACCT	TGGCCATGCA	ATTGGAAGCG	AACCAGATTA	9900
TTAGCAGTTG	GAACCACATT	CCCCTGGCTG	TCAACAATTT	CATAGTAGAT	GTAAGTCAAG	9960
TCTTTTCCAT	CTGCTGCAAT	CGCATGGTCT	TCCTTAATAA	GACGAACTGC	CGCTGGCTTA	10020
CCAGCAGTCG	TAATCTTATC	TCGAGCAATT	TCCTTGCCAG	ATTCATCACG	AGCAATTGCT	10080
TCCAAGGTAC	CTGGTTGATA	GGCAACTTTC	CATTCAAGAT	AAAGTTCATT	AGCATTTGCA	10140
CCTTCTTGGT	AAGTCCGCCC	ATCGCTGGTT	TGTTTTTTAT	TGAAAGTCTT	AAGACCAAGA	10200
GATTTTCCAT	TCAAGAACAA	TTCTACACTA	GAAGCATTCG	AATAAGCACG	AACTGGAATC	10260
TTACCTTCTG	AGTCAGCTAC	TTTGGATGCT	AATTCTTTGT	TTTCCCAGTT	CCAGTGAGGA	10320
AGAAGGTGTA	CCATCGGTTT	CTTCTTAACA	GAAACCCATT	GGCTTTGGTA	GAGATAGAAG	10380
TCATGTTTTG	GAATGCCGGC	TGTATCTACG	ATACCAAAGT	AAGAGCTCTT	AACAGGAGTT	10440
TGATTTTGGT	TGTGCCATGG	TGTAGGTTCA	CCAATATAGT	CCGTACCTGT	CCAGATAAAC	10500
TGTCCAGCAT	AGCCAGCGTT	GTCACGGTCA	AAAGTCCATG	AAGCGGTTGC	TGTTTTCCCC	10560
CAACCCACAC	GATCATTTCC	ATAATCTGAC	TGTTCATAAT	TACGCTCAGG	TCCATTGCTA	10620

TGTTTCAATT	CACGTTCAGG	GCGATAGTAA	CTTCCACGTG	TACGGGTAGC	TGAAGATGTT	10680
TCTGATCCAT	AAATCAACCA	TTTTGGATGC	TTAGCTCTAA	GGGCTTTGTA	ATTATCTTCA	10740
GAATAGTTAA	ATCCAACAGC	ATCGAGTTCA	TCAGCAATTT	TCTCATGCCC	TCCGCTACCA	10800
TTACCGAAAC	GGAATTTATC	TGCTCCCATG	GTAACATAGC	GAGTCTTATC	AACATCCTTG	10860
ATAACCTTAA	CCAAACGTTT	AACAGTTGCT	AAAGAGTGGG	CATCACCATT	AGCTTCACCT	10920
ATTTCATTAC	CAATTGACCA	CATGAAGATA	GCAGGGTTGT	TTTTGCCTCT	TTCGACCATG	10980
GTACGTAGGT	CAAAATCAGA	CCATTTTTCA	CCTTTTCGAG	CTTCTGGGTG	AGTGGCATCT	11040
TTTTCAAAGA	AACGTCCATA	GTCATAAGGT	TTCTTGCCAC	CATACCACGT	ATCAAAGGCC	11100
TCTTCCTGAA	CGAGTAAACC	TAGTTCTGCT	GCGATTTGCA	AGGTTTGCTC	ACTAGCAGGG	11160
TTGTGGGTTG	TACGGATGGA	GTTAACTCCC	ATCTCCTTCA	TTTGTTTGAG	ACGGCGATAT	11220
TCTGCTTTAT	AGTTTTCTTC	TGCTCCAAGC	GCCCCATGGT	CGTGGTGCAA	GGATACTCCA	11280
TGGAATTTAA	TACGTTCACC	ATTCAAAGAG	AAACCTTCAT	TTGGAGTCCA	GTGATAGTAA	11340
CGGTAACCAA	ACAAATCCTT	CTTAGCATCA	ACCAATTGAC	CGTCACGGTA	AACACGCGTA	11400
ATCAATTCGT	ACAAGGCAGG	TTTGTCATTT	AAAACAGTCC	AGAGTTTTGG	TCTTTCAACT	11460
TCTAAAATCG	CATCTAGGCT	TGTTGATTCA	TGTGCTTTTA	AGGTACGACT	CGCTGTACGA	11520
ACTAAGCCTG	TTACAGCATG	ACCACCTCGT	TCAACGATTT	GATATTCGGC	TACAAGTTCA	11580
TGGTCTTTGT	CGTCCGTATT	GACGATTTTG	CTGGTCACAT	GAGTTTCAAC	CTTGCCATGT	11640
TGTTGTTCTT	CAAGTTTTGG	TGTTAAAATA	GTTGTCCCAT	TTTTCTCAAC	ATGCACCTTA	11700
TCTGTCACTT	GTAAAGTCAC	ATCACGATAG	ATACCACTTC	CTGAATACCA	ACGGCTACTT	11760
GGCTGTTTGT	TGACTGCATG	GACAGCAATC	ACATTCTCAC	GACCATCTTT	TTGAAGGTAT	11820
TTGGTGATAT	CATATGAGAA	CTGGTTATAA	CCATTTGGAT	AATGCCCCAC	TAACTGACCA	11880
TTGACATAAA	CTTGAGAATC	CATGTAGACG	CCATCAAAAG	TAAGGCGAAC	ATTTTTCTTG	11940
AGGTCTTTTT	CATCTAGTTT	GAAAGTCTTG	CGATACCAAG	CTTCCCCACC	GTTGAGCTGT	12000
CCACCTTCAT	TTTGTGCAGG	AGATTCATGA	TCGAAATCGT	TAAAGATACT	CCAGTCATAC	12060
GGTAAATCTA	ATTTTTTCCA	CGTAGATACG	TCTGCATCAG	GTTTAATGGC	TTCCTTAGAA	12120
TTTGCATTGA	GTTTAAAGTA	CCAATTTTGA	TTAAAATCCA	CTTTCCTGTC	TTCAATCATT	12180
TGATTCACTT	CTTCATTTGT	TACAGCTTTA	GCATCTTCCT	TGAGCGGTTT	TTCTTGATTT	12240
GAAGCTTGTG	ATTCTATCCT	TGGAGCTTTT	TCTTCCGGTT	TAGCAGACAC	TTTTTCCTCT	12300
TTTGGAGTTA	CGGCTTCATC	TTCTTTCTTC	TCAGATGCAA	TAGCCTCAGT	TGAACTAGGT	12360

938 TCACTTTGTT CTGTCCTTTC AACTATATT TTAGTTTCCA AAGCTTTATC AGCCTTTTCT 12420 TCTACTATCA TTTTTTCCTC TTTAGGTTTC TCAGCAGTAT GAGTAATAAG TGTTTCATCC 12480 GCATAAACTA CAGATTCTCC AGCTATATTT CCTCCTAATA AAACTGCACA AGTCCCAATC 12540 ATTACTGAGC AAGCTCCCAC AGCAAACTTA CGAATGCTAT AAACTCTTTT CCGATTCCAA 12600 TGGCCTTTCC CCATAAAACC CTCCTTATAT TATATTTAGT GCAGTTAGCT ACTACCAAAG 12660 CCCAAGTGGT ATACATGGTA TGACAACCTA GTTTCAACAA TTTACACTCT GCGAAAATCC 12720 AATTCAAACT TCGTCAGTGT CGCCTTGCCG TAGATATGAT TACTGACTTC GTCAGTTTCA 12780 TCTACAACCT CAAAACCATG TTTTGAGCTG ACTTCGTCAG TTTCATCTAC AACCTCAAAA 12840 CCATGTTTTG AGCTGACTTC GTCAGTTTCA TCTACAACCT CAAAACCATG TTTTGAGCTG 12900 ACTTCGTCAG TCTTATCTAC AACCTCAAAA CTGTGTTTTG AGCAACCTGC GGCTAGCTTC 12960 CTAGTTTGCT CTTTGATTTT CATTGAGTTT ATATTTTATA GGAGCGCATT ATTTTGCTTT 13020 TGCTGCGTAC TCTTCGTTAC GTTTGATCAT TTGTTTTCTG TACCAAGCAA AGATACCGAT 13080 ATAGAATACA AGGAAGACTA CTGCACCAAG GATTGCTTTG ATATCACCAG TTGTAGTGTT 13140 13200 TTGAGTTTGG CTCACACCTT CTGGGAAGGC ACCTACACCT TTAGCAAGTT CTGTTGCAAA 13260 TGGTGCAATA AGTGTACCTG AAAGAAGGAA GAGTGGCAAC AAGAGTGTTC CGAAGATAAT 13320 CATACGGAGC AATTTACCAC GAGTTACAAC CAAGAGAGCT GGAGTAACAC CCATAGCGAT 13380 GATACCTGCA AGTGGCAAGA TACCATTTCC AACTTTTGAA AGAAGCACTG CTTCAATCAA 13440 CATGATTGGT GCAAGTACGT TGGCACAAGC CCAGATTTCA GCACGACCAG CGATGAATGG 13500 CCAGTCAAGA CCGATATTGA ATTTACGTCC TTGAAGACGT TTAGTAGCAA CGTTTGTAAT 13560 ACCTTGTGAT AGTGGTTCTA CGGCTGCGAT GAACCATGAA CCGATAAGTG AGAAGAGTTC 13620 CAAAGATACA CCGGCAGTCA AACCAAGAGA CAACCATCCT TTGATAACAA GACGCCATTT 13680 ATCTGCATCT GCAACACCTG CAATTGGATG TGGAGTTCCC ATAATACCGA TAACGATACC 13740 AAGGATGAAA CCGATGAAGA ATTTAGATCC CCAGAAACCG ATTTTCTTGT TCAATTTAGC 13800 AGCATCAAAG TCATATTTAT CAAGGCCTGG GAAGAATTTT TCAAAAATCT TATCCAAAAC 13860 CATGATAACT GGGTTCATCA TGTAGTTCAT GTGAGTTGAT GTCATTGGTG ATGAACTTGG 13920 GGCGTTAAGA AGGTCATCAA ATGTAGGTTT CATCAAGTCA GAGTTGATAA TTTTCAACAC 13980 ACCGACAAGG ACGATAGCTG CTGTAGCAAT AAAGAGTGAA ACCCCTTGAC TCACACCATT 14040 GTTATCAGCA TACCATTTAA TCAAGAGACC TGTGATAGAC AAGTGCCAGA TATCAAAGAT 14100 ATCGACATCA AGTGTATCTG TTTTCTTCAT AGCTAGCATC ACTATGTTGA CAATCAACAT 14160

939

GATGAGCAAG	AAGTATAGTG	TCCAAGCAGA	ACCCCAAGTG	ATTGTAGCAA	GTGGTGCCCA	14220
ACCAACGTCG	GTAATACTCA	ATTGGATACC	AGTGTTTTCA	ACGAATTTTG	CTAGTGATGC	14280
TGAGAAAGCA	GTGTTTAGCA	TACCGATGAT	AGCACCGATA	CCTGTAAGAG	CGATGGCAAG	14340
TTTGATACCA	CCTTCAAGCG	CTTTGGAGAA	TTTCACTCCA	AAAAGTAAAG	CCAATACTGT	14400
CAAAATGATT	AACATGATGA	CAGGTCCACC	CATTTCTAAG	ATGGGATTGA	AAACCTTTCC	14460
GATTAGGTCA	AAGATTGCAT	CCATAACAGT	TCCTCCCTTT	TTGATGTTAT	ATGAATGTTA	14520
ACAAATTAGA	ATTAGCTTAA	TCCGTGTTCT	TTAATAGCTG	CTTCAATATT	GTCAAATACT	14580
GGAGCGCTCA	TTGCTGGGAT	ACGGAATAAG	ATTGGCCCAG	CTTCGATAAC	TGGGATACCT	14640
GGTTCAAAAC	CAAGGTCTGT	TGCAGCGATT	GGTGTAAAGA	TATCGTAACC	TTTCATAAGG	14700
TCTTCGTTTA	CATCTTTCAC	CATGACTGCA	TCACAGTGAA	CATCATAACC	ACGGTTTGAA	14760
AGTTCTTCTT	CTAGAGCACT	TTTAATTTGG	TGACTTGAGT	TAACACCTGC	ACCGCAGGCA	14820
GCAAGAATTT	TAATCATTTA	GATTTCCTCC	GATTTTATTT	TTTAATAGAC	AAGATTAAGC	14880
GGTTGCTTCA	GCAATGTAAG	TATAAAGGCC	TTCTGGTTCA	GAAATTTTTG	ATAGGTCTTC	14940
AAGATGACCA	TTTCCTGTGA	AGAAGTCCAT	TAACTGAGCA	AGAATGTTCG	TTTGACTTGA	15000
ACTTGAATTA	TTAATGATAA	AGAAGAGTAG	GGATACTTCT	ACTTCCTTAT	CAGGAGCTAT	15060
CATATTGTGA	AAAGTTATTG	GTTTTTCTAA	TCGAACAACC	ACCACTTTCT	CAGCTAGATT	15120
ATGAACAATA	TCTGTGTGAG	GAATCGCTAC	ATTTGGCAAG	TCCTTTCCTA	GAAATTCCAT	15180
ATCTAAACCA	GTTGGAAATG	ACTTTTCACG	CGTGATCAAG	GCTTCACGAT	AAGTTGGAGT	15240
GACAATTTCT	CGTTCTTCCA	ATAAAGTTGC	AACCTGATCA	AAGAGTTGTT	CTTGACTATC	15300
CGCTTCTAAG	CAAAACACAA	GGTTTTTGTC	AAAGAAATAA	TCTAATACCA	TAAGTTTTTC	15360
CGG						15363

## (2) INFORMATION FOR SEQ ID NO: 140:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 28882 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double

  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 140:

TAAGACTATT TAATAGTGGA GTGAAATAGG ATACGAACAA ATTGATTAGG AAAATCAAAT 60 GAATTTATAG AAATCTTTTA GCAGTTATGT TATCCTATTC TAGTTTCAAA ACGCTATAGA 120

			940			
AGCAGCATTG	TGCTAGTCkA	GATTCAGTTT	ACTATACTAA	AACGAGTAGC	TTGAAATCAA	180
AAAACCCACC	CTCACAGGCA	GGTTTTATCT	GTATTATTCA	GCTAGATTAT	GCTTTACCTT	240
CTGAACCGAA	TACGTCGATA	CGTTCTTCAA	CCGATGCTTG	GATAGCTTTT	ACACCGTCAG	300
CCAAGAATTT	ACGTGGGTCG	AAGAGTTTTT	TCTTGTCGTA	TTCTGCTTCG	TTTGCTTCGT	360
AGTCACGAGC	AAATTTACGA	GTTGCGTTAG	CGAATGCGAT	TTGGCATTCT	GTGTTAACGT	420
PAACTTTGGC	AACACCAAGT	TTGATAGCTG	CTTGGATTTG	CTCATCAGGA	ATACCTGATC	480
CACCGTGCAA	TACGATTGGG	AATCCTGGAA	GAGCTTCTGT	CAATTTTTGC	AAGTGGTCAA	540
GGTCAAGACC	TTCCCAGTTT	ACTGGGTAAG	GACCGTGGAT	GTTACCGATA	CCAGCTGCCA	600
AGAAGTCGAT	ACCAGTTTCA	ACCATTGCTT	TAGCGTCTTC	GATTGGAGCC	AATTCACCTT	660
FACCGATGAT	TCCATCTTCT	TCACCACCGA	TAGTACCAAC	TTCAGCTTCT	ACTGAGATAC	720
CTTTAGCGTG	TGCTTTTTCA	ACAACTTCTT	TAGCCAATTT	AAGGTTTTCT	TCAACTGGAA	780
GGTGTGAACC	GTCAAACATG	ATTGAAGTAT	AACCAACTTC	GATACACTCA	AGTGCATCTT	840
CGTAGTGACC	GTGGTCAAGG	TGGATAGCTA	CTGGTACAGT	GATACCCATT	GATTCAACAA	900
GGTTAGCGAT	CAAGTTGCGA	GCAACTTTGT	AACCACCCAT	GTATTTAGCA	GCACCCATTG	960
AAGTTTGGAT	CAAAACTGGA	GCTTTTTTAG	CTTCTGCTGC	GCGCAAGATA	GCTTGAGTCC	1020
ACTCAAGGTT	GTTTGTGTTA	AATCCACCAA	CTGCATAACC	GTTGTCACGG	GCTGCTTGGA	1080
CAAATTTTTC	TGCTGAAACG	ATTGCCATTT	TATCAGGCCT	CCTGTATATT	TTTATGGGTC	1140
ATCCCATTTA	CATTGTTCAT	TTTATCACTT	TTTGCCAAAA	AAATCTAGTT	TTTCCCGCAG	1200
PTTCGATTGA	TTTTCTTCTA	ACTCCATCTA	TGTAAACCCT	TTCTCTCCCT	AGTCTTGGAC	1260
GACTTTTGGA	AAATCTATAA	AGAAGGTTAA	ACTATTCTCC	TCCATCTCGA	AACGATAAGC	1320
TAATTTTTCA	TGTTCTAATA	GACTCTTAAC	CACAAAGAGC	CCCATACCAG	ACCCCTTGAC	1380
CTTGCGACTG	GCATTGTCAG	AAAAAGACTG	GGCTAGTTTT	TCTTGTTCCT	CTGAGCTACA	1440
GCTATTTTCG	ATAAAAAGTT	CTCCTTCTCT	TTCTCCAATT	CGAACTAAGC	CACCTGGAAC	1500
AGAGTGCTTA	ATGGCATTGC	TGATGAGATT	AGAAAGAATC	AACTTCATAA	CTGATGGGTT	1560
PAGATAAGCC	TGCTGATGGG	TCAAACTATT	GTCTATCTGG	AGCTCTCTTT	CCTTGGCTAG	1620
CAAGGCATAA	TCTTTGACCA	GATTTTGCGT	CATCTGGAGG	AGGTCAATTG	TTTCCCTATC	1680
ATCTCGCAAT	TCCTGCACAG	AAGAGAGGGA	AAGTATCTGC	AGAACATGGT	GATTGAGTTC	1740
ATCCACAATC	CCCAAGGCAA	CTCCCAGATA	CTGGTCTCTA	TCCTTATAAC	GACCGATATT	1800
CTCTCTCATA	TTTTCGATTA	GGATTTTCAA	ACTAGCCAGC	GGTGTTTTCA	ATTCATGAGA	1860
AGCTCCTCGT	AGGAATTCGA	CCTTCATCTT	CTCCAGCTGG	AGAATGGCTT	CATTCTTTTC	1920

ATGCAAGTCC	GCAATAACAG	TCAAGAGATG	CTGGTAGAGG	CTATTGATTT	GTTCCTTGAG	1980
ATTACCTATC	TCATCCTTAG	AATCCACGCG	CAATCGCACT	TGGGAATCCA	GGTCCATCAT	2040
CCGACGGGTC	ACCCGCTTGA	TTTCCAAAAT	CGGTGCAACA	ATAGTCCGAG	CGTAGATGTA	2100
GGCCACCAAA	AGGGAAATCA	GAAAGGAGGC	CAGCAAGGTA	TAGGGAAGAA	ACTGGAGACT	2160
GATTTGCTCC	GCTTCCTTTT	GTAAATCCAT	GGAAGCTAGA	AACTGGAGAA	TCATAGTACC	2220
ACCGTCTTGC	GTTTTCACCT	CGCGCTCCTC	AATAAAGAGA	GAGGTTGTCT	GGCGGTCTGT	2280
GTCCAGAGGA	AGACTGTCCT	TGACTTCTAA	CTTGTCCTCG	GTCATCTCAC	CTTTGACGGT	2340
CCCCTTGATA	TCACTAGTCT	GGGAATACAA	GTCTAACACT	TGCTCGATAC	TCTGCCTATC	2400
TTTCCCTTCT	AGGGACTGGG	CAATGGCTGT	TGCCTTTTGA	CCAATGGTTT	CCTGACGATG	2460
ACTCAGATAA	GTCGAAGGAA	AAAGAAAATA	AATAGCTAAA	TGAAGGCAGA	TAACCAGAAC	2520
ACTAAATATC	GAGAAGGTAT	AGATAAATAT	CTTTGCAAAT	AAACCTGTTC	GTTTCATTTT	2580
CGCTCCAATT	TATAACCAAC	ATTGCGCACA	GTGAGGATAC	AATCCAAGTC	TAGCTTTTTC	2640
CGCAATTCCT	TGATATAAAC	ATCAATAACA	CGGTCAAAGG	GAACCTCATC	TGTCGCTTTC	2700
CAGACGGCAT	CGATAATCTG	AGATCGAGTC	AAGGCCCGGC	CTTCATTTTT	CACTAGATAG	2760
TCCAGAATTT	CCAACTCTTT	GGCATTGATA	GGCACTTCTT	GACCTGCGAG	GCTTGCACTG	2820
TAGCTTTCAA	AGTCCACCTT	GGTATCCTTG	TAAGAAAAGA	TTCGTCCTGT	ATCGTAGTAG	2880
CGCTTGAAAA	TCGCGTCCAC	CCTCACTTTT	AAAAGGGAGA	GGGAGAAAGG	TTTTTCCAGA	2940
TAGCCATCTG	CCAAAGAGGC	AAAGGCACTC	ATCTTGTATT	CCTCATCTTG	AAAAGCTGTC	3000
AACATCAAGA	CAGGAACCTG	ACTGGTTTTA	CGAATCTCAG	CTAGGACTTC	TAAGCCGTTG	3060
AGCTTGGGCA	TCTGGATATC	CAGTAAAACC	AGGGCCACCT	CATAGCTAGA	AAATTGCTCC	3120
AGAGCTTCCT	GACCGTCCGC	TGCCTCAATA	GTTTCATAGC	CACAATCCGT	CAAATAATCA	3180
CTGACCCCCT	CACGGATCAT	CTCTTCATCT	TCTACAATTA	AAATTTTCAT	ACTTTAACTG	3240
CTCTCTATTT	TTTATTTTTC	TTAGAATAAA	TACCTACCCT	ATTTTCTATT	ATAGTCTCTT	3300
GCTGGCCTTT	TGTCTGCAAG	CAACTGACCA	CTAGATAAAA	CGTTGTGAAA	TTCCTTTCTC	3360
ATAAATTCCA	TAACTTTAGT	АТАТТАТАТТ	TAAGCACTAA	AGTACAAAGA	AAGCAACTGA	3420
AAGCAATGAT	TTTCACCACT	GCTTTCGGAT	TTATTTTGAA	TTGTTAAATA	GCCATTCCTA	3480
TCCACTATTC	TTGAATAGAA	ACACAAGATG	CAATCTTTAT	TCTAGACTCA	TTTTTTCAAA	3540
TTTATTCACC	ATCCAGCAAG	AGCTCTTTTG	GTTGTTTTCT	AAGGAGATTG	CTTGAAGCAA	3600
GCGCCATAAC	GAGAACCACT	AGAACCAAGG	CAAGGACAAA	AATGATGATA	AAGTCTGATG	3660

TCTGAATGGA	AATGTCTAGG	CTCGACAAGG	942 TCTTGCTAAA	GCCATCTACT	TCTGCACCAC	3720
CACCAAGGTT	AGAGGCTTGA	GCCGCCTTAC	TAGCCTGTTT	GGCAACACCT	GAAGTCACAT	3780
TGGCAAGGAC	AGTGTTTCCA	ATTGCACGGG	CAGTGTAATT	AGCTAGGAAG	TAAGCAGAAA	3840
CTAGAGCAGG	GATAGCAATC	AAGATAGATT	CGGTGATGAA	TTGACCCAAG	ATACTTGCCT	3900
GCTTGAGGCC	GATAGAGAGG	AGAATTCCCA	CTTCCTTGCG	ACGGGCGTTG	ATCCAAAGGC	3960
TGAGCAAGAG	GGCAAGGAGG	AGAACTGAGA	AGCTCAAGCT	ACCCCAGAAG	AGGAGGTTGG	4020
CCATCTTGTA	CATACCAGAG	ATAGATTGCT	CAAGAGCTGG	GTAGTTAGAG	GAGCTCTTGA	4080
CGAGTGTGTA	GCTCTTCCAG	TTGATACCAC	TGATGCCATT	CAACTCTTTC	ATAACATCAT	4140
CCAAGTTCTT	GTCTGCTGTT	ACAAAGAAGG	TTGCGTCCCC	ATAAATGGCT	GTGTCTTCTG	4200
TGTATCCATA	AAGTTTTGCA	GCAGTGTGAA	TGTCTGTAAT	AGCTGTGTTT	TCGTAAAGTT	4260
CTTGTGAGTA	GGTTACTGCT	GACTTATTAT	GACCATCAAA	GAGTCCCTTG	ATTGTCACTT	4320
CAACTGTTTC	CTTGGCTCCT	TTTTCATTAT	CTGCATCGTA	GATATTAGAG	TCCAGTTTAA	4380
CCTTGTCCCC	TACTTTCCAG	CCGTGTTTGG	CTGCCAAGTC	CTTGTGCAAG	AGGATTTTAT	4440
CCTTGTCGTC	GTTGGTTAAG	TGCTCTCCTT	CGACTAGTTT	ATAAGAACCA	GAGACAAACT	4500
TGTCTTCTTT	AGAGGAGTCA	TTGACACCTG	TAATCATCAA	GCTACTTCCA	AAACGCTTGG	4560
CACGATCAGC	AGTGAGATTC	TTCTTGGTTT	CTGGCGTTTC	AATCAGGTCA	TATCCAGTCA	4620
AATCTCCGAT	AGCGTTGATA	CGTTTGACAT	AAGACTCAAT	GGCCTTGTTT	TCGGTGATTT	4680
TTTTGATGTC	TTCACCCTTG	ATATTCCCAG	CACCACGAGG	CGTTCCTTGG	TTGACGCGAC	4740
GATTGATTTG	CATGGAGAAG	CTATTGGTGA	TATTTTTAAA	GGTCTCCTGA	GAAGCCTTGG	4800
CAGTAGCTCC	CTTGATTGAC	AAGCCGACCA	AACTCAAGCT	CGCCATGAGG	AGAATAATCA	4860
GGAAGATGAC	AATCGATTTG	AAAAACTTCC	TTGTAACATA	GGCAAATGCG	TTGTGTAACA	4920
TAGATTCCCT	TTCTAGATTT	TGTTTTAATC	ATTCTATTAA	AATAAGCTCA	AATTATTTAC	4980
TAGTATTGCG	CGTTTCAGTC	AGTTTCTTAT	CCTTTAATTC	AAGTGTAATA	TCTGACGCTT	5040
GTGCCACTTC	TTTACTGTGA	GTTACGACAA	TCACACATTT	ACCTGTTTTC	TGGGCAAGTG	5100
ATTTGAGTAG	TTCGACAATA	TCTCCAGCAG	TTTTAGGATC	CAGATTTCCT	GTTGGCTCAT	5160
CAGCTAGAAT	AACTGGAGCT	TCTGAGACCA	AACTGCGAGC	AATGGCAACA	CGTTGCTGTT	5220
GACCACCTGA	TAACTGGAGA	ACATTCCGCT	TGATCTGGCT	TTCATCCAAA	CCAAGCTCAA	5280
GAAGTGTATT	CTTGCTTGCC	TTTTTGTTGA	CCAATCGGAT	ATTTTCCAGC	GGAGAAAGAT	5340
AATCTATCAA	GTTATAATTT	TGAAAGACCA	GGGAAATATG	GTGCATGCGA	TGGTAAGAAT	5400
AGCCCTTCTT	ACGAATATCC	TCTCCTTGAA	AAAGGATAGA	ACCTTCAACA	GGACTATCTA	5460

GACCAGCAAG	TAGGGACAAG	AGTGTGGATT	TTCCTGCTCC	TGACTCCCCA	ATAATACTGT	5520
AAAATTTTCC	GGGTTCAAAA	TTATAATTGA	TCTGATATAG	GACTGCTTCA	GCAGTATTCT	5580
TATAACGGTA	GGTAACATCT	TGTAATTGTA	ATAAAGTCAT	GATTTCTCCT	TCTTAACTAA	5640
TAGATGATAA	AATTTCTTTC	GGTGATTTTC	TAAATAAGAA	TAGGAAACAA	AGGGCTACAG	5700
ATAAGCAACT	AAGCAGAACT	AGAAAAACAT	AGGATTCTGC	AAAAGATAAG	ATGCTAGTTG	5760
ATAAACTGCT	TGCTTTGGCT	AGTGTATCTT	GTAAGCTTGC	CTGATCTCCA	CTTGCTAGTA	5820
GAGTTTGGAG	TAGGTAAGTT	GTGATTGCGT	TTCCTGCAAC	AAATGCTGGA	AGCAAAGCTC	5880
CAAGAGATAC	CAAAACTACC	TCTAAACAGA	ATTGTAGGAA	GATCGAGCTC	TTGCCTTTTC	5940
CAAGTGCAAG	TAAAATCCCC	ACTTCATAGA	CCCGTTCTCT	CAACCAGAGA	GACAAAACCA	6000
GAATTAAGGC	TCCAGCTCCT	GCTATCAACA	TCCCATAAAG	GAAGATGGTC	AGGAAGGTTT	6060
GGAAAGTTGC	AACTGAGTCT	TTGATTTGTT	CAAAAGCCTT	GTTTTCCTTT	TCGACTTGGT	6120
AGCCTTGATT	TTCCAAGGCC	AAGTTTTCTA	CCTGCTTCAT	GAGTCCGTCC	ATTTCCTTAG	6180
GATTTTCTAC	ATAGAAGCGT	GCTGCACTGA	CTTGAGCTTC	ACTATTGCCC	AAAAGGGTTT	6240
GGCTACTTTC	ATAGTCTGTA	AAGACTTGAT	TTTCACTGAA	GTCAGAAGAC	AAGCCTGTGA	6300
ATTTCTCTTG	TTTTTTACCA	GAAAAGATGC	CGATAATCTC	AAACTCTACT	GTTTGTCCTT	6360
TTCCAGATTC	AGACTGACCA	GCATCCAAGC	CAATCTTGTC	ATGAAGCGAA	AGACCGTTCT	6420
TCTTAGCCAA	TTCTTCGTGG	ATAAGGATTT	TCTTGGAATC	CCCTTTTTGA	AGGTGTCGCC	6480
CTTCTTTTAG	ATTGAAAGCC	GAACTGGTAA	AGGTTACATC	CTTGGATGAA	TCCTCAAGAG	6540
CCGTTAAGCT	AACCAAGTTA	TTGTCTGCAG	CTGATAAATC	ATCACGCTCC	ACGCTCTGCT	6600
CGCCAGTCAC	TGCTTCCTTG	TCTTTTAGTT	TTGCGACCGT	CTCAAGTTCA	GGAGAGACAT	6660
TTTCCAGCCC	CTTAATCTTG	CTTACAGATG	CTAGGTCTGA	CAACTTGAAT	GTCTGACCAT	6720
TCTCTATCTT	CTTAATAGAA	AAAGATGTAT	TGAGTGATTT	ATAAAGATTG	CTTTCTACTG	6780
TTTTGTTGGA	CTTCATCAGA	GTCAAACAGG	CTGAAATTCC	GGCCAATAAG	ACCAATAAAA	6840
TCAGAAATAA	AATAAAACTT	CTCAGTCGCT	TTCTGCTGAC	ATAAGCCCAA	GATCTTTGGA	6900
TTGGATTCAT	TTGTCACCTC	CATATTTGTA	AGACTATTAT	AAAACCCAAA	TATGAAATAT	6960
TTATGAAATA	CGAAAAAAA	ATATCGAGTA	GGGGATAATC	TCTAGCCCCT	CTCACACCAC	7020
CATACGTGCC	GTTCGGCATA	CGGCGGTTCA	ACTAACTTTT	AACGCATGTC	GTTCAAGGTA	7080
ATAATCCAAA	CACGAAACCA	GTCCACGTTT	TTCAAGGACT	GGTTTTGATA	TAGCACGTTT	7140
AAGTACCGAC	TTCTGAGCTA	CTATAGTAGA	TTGAAACTAG	AATAGTACAC	CTCTACTTCT	7200

944 AAAATATTGT TAGAAATCGA TTTGACTGTC CTGAACAATT CGTCCTATTC TTATTTCATT 7260 TTACTATAAT TGATAGTGGT CGCCCCAGCC AGATACCTTA TCTGCTATCC ATTTAGGAAC 7320 CCCTAACTTA AGCAATCCCC ATAATCGTCT CGATTTCTTC TTCCATTGCT TCCAGATAAT 7380 CACTCGTAGG CGAGTACGCA AGCGCTCATC TATGCTAGTG ACTATACTTT TCATATTTAT 7440 AATTCATTCC TTTCGTTTCA CTCAAGGCAC AACACAGAAT GAAAAAGTGT TGTGATCTTT 7500 ATTTTGTTTT ATAATAATAG TGAGAAAACC TATCACTACT ACAAATCACG GGGAGGTGAA 7560 TAAGTGAGTG GTACAGCCAC TACCTCGCAT ATTTTGTCAC ATCATTTAAC GGTACATAAT 7620 AAGTTGTACC ATCTGAATAA GTTGCTACAA TATCATTTGC ATGCTCTCCT TCACCTTTAG 7680 CAAAGGTTGG AGCTCCTGCT GGATGATTTT TATTTGCCTC TTTCAATTTT TCAATAATGG 7740 CATTTTTCT GTATCTTTA TATTATCAGG ATTTTTCACT AAGATTTTGT CTGGATATGT 7800 CGGTTTAGCA GAAACAATTT TTACTGTTAC TTCTTTTTTA TTCGAAGCAC TTGTCCAGTT 7860 TCCAGCATTA TCTTTAGCAT TTAATTTTAC AGTAATTCCT GAACTAGGAA CTTCAGTAGC 7920 AGGTTGATTA TCAACATTAT TCAACTTTAA TTTCAAAAGA GCTGTTGCAT CAGACGTTTT 7980 ATCAATCGTT ATATATATG ATGAATTGTT ATTATAAACA GTTCCTTCAT ATTTAGCTGT 8040 TTGTGAGCTA CTTGAAACAG AACTGAAATT ATACCCACTA CCTCCCTGAT TATCTTCAAT 8100 GCTTACGTCT AAATGAACTT CCCCACTATT ATTTGGCTTA GCAACAACTG TTATAGTAAA 8160 ATAACATAAA ATTTGCATAA ATAGATTAGG GAAATCAAAG CAGCTTCTAG GAATGTTTTA 8220 GCAGTCACAG TGTACTTTCC CAGCATCAAG CCACTATAAC TCTGCACATA AAAATGGAGA 8280 AGATGGCAAT CCTCTTCTCC AAATATTAAC TTCTTTACAA ACCAACTATA GTTGACAAAG 8340 AACCTAAAAT CAATTGATAA CACAAGGTCA GGTCGGTCAA CTCTTTCAAC TGAAGCCCTG 8400 TCAACTCTTC CCATTTATCA ATCTTGTATT GGAGAGAATT GCGGTGCAGA TAGAGTTGCT 8460 GGGCTGTTTT AGTGAGAACA GCACTATTTT CCCAAAGAGA GAGAATGATT TCCTGAATCT 8520 GATCTTGATC CAAAATCATC TGGTGTAGAC ATTCCTTGAT TGGCTTCAAG TCCACGAGTC 8580 TTTCTCCCAT ACTCCAAAGA TAGAGCTGAG AAAAAGTATG AACACCTTGG TGACCCTGAC 8640 GCCACCATGT CTTGAACAAA TCCCGCTCAG CTTTGATTAA GTCTGATAGG GCTTGATGTC 8700 CCGTCTGAGA CCAAACCTGA CCCAACATGA TAGAAAGACG AAGTCCAAAG TCATACTCAA 8760 CCGCTTCAAT CGTATCACTT AAAATATCTC TTACAGAAGT GTATTTGTCT TGTTGAAGCA 8820 CGAAAACATA ATCCTGAGCT CCGACCTGTA GCACTGTCTG ACAATTCGGA AAAAGAGTCC 8880 GCATCATATC TAGCCAAGAA GCCAGATTTT CCTGCTGAAA ATAAGAAAGA TGGCAATAAA 8940 CCAACTGAAT CTTTTTAAAA ACTTGCGGTG CCTGTCCCTT GCCCTCAACC AGATAGGAAT 9000

ACCAAGGGTT	TAGCGAACGA	GCCTGCTCCT	GCTGGGTCAA	AAGGGCAACC	AACTGCTTTT	9060
CACGCTCGCT	GAGCCCAGCT	TCCTCCAGCA	AAATCCACTG	CTGAGAAGCT	AAAGGGAGCG	9120
TGAGATAGCC	CTCTTTCTCT	ACTGGTTGGT	CTGAAATCCG	AGCCTCAGGA	AACCAGTCTT	9180
GTAGTTCTTT	TGCCCTCATG	TTCTAGCCCT	CCACTTTTTG	GATGCACCAT	GAAACCAAAC	9240
TCTCAAGACG	TTCCAGATTC	TCAGTCATAT	GGAGATAGCC	CATAACCGCT	TCAAATCCCG	9300
TGGACATACG	ATAAGTCACG	ACATCTGCAT	TTTTAGCCTT	TGTGTGGCTA	TTGGTATTGC	9360
GGCCACGTTT	GTAGATTTCT	TCTTCTTTTT	CCGTTAGGAC	CTGCTCCTCC	AACATGAGAG	9420
CAATCAGGCG	AGCCTGAGCC	TTGGCTGACA	CGTACTTAGT	TGCTTCTTGA	TGGAGTTTAT	9480
TGGGTTTGGT	CATACCTTTG	AGGATGAGGT	GACGGCGAAT	ATACATAGAA	TACACCGCAT	9540
CCCCCTCAAA	GGCTAGCGCA	ATCCCGTTAA	TGAGATTGAC	ATCAATCACG	TGTCCACCTC	9600
ACTCCATCCT	TGGTATCAAG	GAGCTTAATT	CCTTGAGTAA	CCAATTGGTC	ACGGATTTGG	9660
TCTGCTGTCG	CAAAGTCACG	ATTGGCACGC	GCCTCTTGGC	GTTTTTGAAT	CAAGTCTTCA	9720
ATCTCTGCAT	CCAAAACTTC	CTCAACAAAG	ACAATTCCAA	AAATTTCTAA	CATATCTGCA	9780
AGAGCTTGCT	TGACACTTGC	ATCATAGTTC	CCTGAGTTGA	TCCATTTGGC	CATTTCAAAG	9840
ACAACTGTGA	TACCGTTGGC	AGCATTAAAA	TCTTCATCCA	TAGCTGCTAC	AAACTTATCT	9900
TTAAAGTTTT	GTAACTCTTG	GGCATCCACA	TTTCCTGTAA	ATGGTTGTTC	GTAAGTATTC	9960
TTGAGATACT	TGAGATTGGT	CTCGGCATCG	CGAACTGCCT	TTTCCGTGAA	GTTGATAGGC	10020
TTACGGTAGT	GCTGGGTCGC	AAAGAAGAAA	CGAAGTACTT	GCCCATCAAG	AGTTTTAAGG	10080
GCATCGTGTA	CCGTAATGAA	GTTACCCAAG	GACTTAGACA	TTTTGACATT	GTCGATATTG	10140
ACAAAGCCAT	TGTGCATCCA	GTAGTTAGCA	AAAGCCTTGC	CTGTTTTAGC	TTCAGACTGG	10200
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GCCGTCACAT	CCTCACGAAA	GGCAGCGATG	TACTTATCCG	CAACCTCCTG	AGGCGTGATA	10680
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CACGGATTTT	TCCTTTTTTG	ATTTTGTAGT	TATCAGCGAT	ACGAGCTCCT	GGAAGAGCCA	23040
CCATGACCTT	GATCCCAGCA	CGCACATTTG	GGGCACCACA	AACGATCTGA	CGCTCTTCTT	23100
CTTCGCCAAC	GTTAATCTGA	CAAACATGGA	GGTGAGTCTC	TGGCACATCT	TCGCAAGACA	23160

AGACCTCACC	GACGACAATT	TTTGAGAGAC	CAGCAGCTGG	TGATTCGACA	CCCTCTACCT	23220
CGATCCCTGT	AGTTGACATT	TTTTCAGCCA	ACTCTTGTGA	TGGCACATCA	ATGTCCACCA	23280
ATTCTTTTAA	ССАТТТАТАА	GATACAAGCA	TAATTTAGTT	CTCCAGAATG	ACAGTTGTCA	23340
CTCTAGTTCT	TTTCCTTTCC	TATCATTTCA	ATAGAAGAAT	CCTCTTCTTA	CCTTAATTTC	23400
TTTCTCAGTA	ACCAATCCGT	ATCTACTTTT	TGACCAACCA	TAAAATGATG	TTGGCTAAAT	23460
TTTTCAAAAC	CATATCGGTT	ATAAAACGCT	TGAGCTTTTG	TATTATGCTC	CCAAACACCT	23520
AGCCAAGCCC	AAGAAAAACT	ATTTTTTGTA	GCAAGTTCAA	GTGCGAATTC	AAACAGTTGC	23580
TTACCTAGTC	CAAATCCTTG	GAATTTTTGT	AGCACATAGA	GACGTTGAAT	TTCAAAAGCG	23640
TCCTCTAATT	CTCTCTCAGT	TTGAGCACTT	CCCCAGTTGA	CTTTGAGAAA	ACCAGCTATC	23700
TCCTCCTCAT	GCATAATGAA	ATAGGTTTCA	GAGTCAGGAT	TTCCCAACTC	AGTTGACAAA	23760
GTTTTCAGAC	TATAAGCCTC	TTCAAAGTAT	TCCTGTAACT	GCTCTTCCGT	ATTATCATAC	23820
GCAAAGGTTT	CACGAAAGGT	TTGTTTGGCA	ATTTTAGCCA	ACACCTCAAC	ATCTGCCATT	23880
TCTACTTTTC	TAATCATTAT	TTAAACTGTT	CTGAGAAGCG	GACATCTCCT	TGGTAGAATC	23940
CACGGATATC	GTTGATTCCA	TAACGGAGCA	TAGCTACACG	CTCTTGTCCA	AGACCAAAGG	24000
CAAAGCCAGA	GTATACAGTC	GCATCGATAC	CACTCATTTC	AAGGACACGT	GGGTGAACCA	24060
TACCGGCCCC	CATAATTTCG	ATCCAACCTG	TTTTCTTACA	TACATTACAG	CCTTCTCCAC	24120
CACACTTGAA	GCAAGAAACA	TCCACCTCAA	CAGATGGCTC	TGTGAATGGG	AAGTAAGATG	24180
GACGCAAACG	AATTTGACGC	TCTTCACCAA	ACATTTTTTG	GACAATCAAC	TGAAGCGTTC	24240
CTTGAAGATC	AGCCATAGAG	ATATTTTTCC	CAACTACCAA	GCCTTCGATT	TGGTGGAATT	24300
GGTGACTGTG	GGTCGCATCG	TCCGTATCGC	GACGGAAGAC	ACGCCCTGGC	GAGATCATCT	24360
TCAAAGGACC	TTTAGAAAAA	TCATGGGCAT	CCATAGCACG	CGCCTGAACT	GGAGACGTGT	24420
GGGTACGGAG	CAAGATTTCT	TCAGTGATAT	AGAAAGTATC	CTGCATATCA	CGAGCTGGGT	24480
GGTCTTTTGG	AAGGTTCATA	CGTTCAAAGT	TATAGTAGTC	TTGCTCCACT	TCAAAACCAT	24540
CCACGACTTG	ATAACCCATA	CCGATGAAGA	TATCTTCGAT	TTCTTCACTG	GTTTGTGTCA	24600
AAACGTGACG	GTGACCAGTC	GCAACTGGAC	GACCTGGAAG	CGTCACATCT	ATACTCTCGC	24660
TAGCCAGTTG	AGCCGCGACT	TTCTTTTCTT	CCAAGAGCTT	AGCTGTTTCT	TCAAAAGCAG	24720
CAGTCAAGAC	ATCACGAGCT	TCATTGACGT	GTTTCCCGAT	GATTGGACGC	ATCTCAGCAG	24780
AAACATCTTT	CATCCCTTTG	AGGATTTCAG	TGAGCGAACC	CTTTTTACCA	AGGACAGAGA	24840
CACGCAAATC	TTGCATCTCT	TTTTCATTTC	CAGCAGTAAT	CTGCTTCAAG	CTAGCCAGCG	24900

954 TTTCTTCGCG AAGCGCTTTT AATTGTTCTT CAATAGTTGA CATATTTCCT CCATCAGTCT 24960 CTCGTAGATA AAAAGAAAAC CACATGCCAA AAACTCCACT CGGAGCGTTG ACACGCGGTA 25020 CCATCCGTTT TCATCTGACA AGTCAGACCT TCATTTCTAA ATCCATGCGC AAGTGAATTC 25080 ACCCAGCTTT CATATAGAGA GCTTGCAGTC ACGGCTCTCC TCCCTGATAT ACTTCCCTTG 25140 GGCTACTAGT CTTTCAGATT CCTATTCAAT TACTACTTAG TTTATCAGAT TTTTACCATT 25200 CTTGCAAGAC CTATCTTACT TCTGCTTGTT AGCTTATTCT TATCTAAATT TATATAAACC 25260 TTATCTAAAT TAACTATTTA TAATTTTTGT AACAAAATTA AATTAATTGA CACTCCCCTA 25320 TAAAATAAAG AAGTTTAGAA TTTAATGTCT TCCAAACTTC TTTATTCCAT ATTTAATGAA 25380 ATGCCACCTT AACCGTGATA ATAGCTAGTC ATCAATAAAA AACTATTTGA ATAAGGATTC 25440 TCCATTTGAT TCAATCACTT CTTTATACCA AGTAAAAGAC ATTTTCTTAT ATCGATTTAA 25500 TGTACCACTT CCATCATCGT TTCGATCAAC ATAAATGAGA CCGTACCTTT TAGAAAGTTG 25560 TGCAGTGGAC ATAGAAACAC AGTCAATACA TCCCCAAGAC GTATAGCCCA TAATTTCAAC 25620 ACCATCCTGT AGAGCTTCAG CAACTTGCAA TAAATGTTCT TTCATATACT GAATTCTATA 25680 ATCATCTTGG ACGGTTAAGT TATTAAGTTC ATCTTTTATT AGTTGATCTT TAGCACCTAA 25740 TCCATTTTCT ACTATAAATA ATGGGATTTG ATAACGGTCA TAATATCTAT TTAAAATTAT 25800 ACGTAGTCCA ATTGGATCAA TTTGCCATCC CCACTCTGAA GACTCTAAAT AAGGATTTAC 25860 TAAACCACCA ATAATATTCC CTTCTCCTGA ATTATACTGT GTTGGAAGAG CAGATTGAGT 25920 CACACTCATG TAATAGCTAA AGGATAAAAA ATCTACGGTA TAATTTTTTA ATAACTCTGC 25980 ATCTTCAGCT GCAAACTCTA TGTTAATGTC ATTTTCCTTA AAATATCTTT TTGCATAATT 26040 CGGATAATAA CCTCTAACAT GCACATCTGA AAATAGATAA TTTAGATTCT CATACTCATG 26100 AGTCGCCCAT ACATCTTTTG GATTTGGAGT CATTGGATAA GCTGGCATAG CTAATACCAT 26160 ACATCCCACC TTAAACTCTG AATTAATCTC ACGAGCAATT TTTGTAACCA AACTTGAGGC 26220 GACTAATTCA TGATGTATAG CTTGATATAA TTCTTGTTTC GAAAGATTCT CCTTAGGTAT 26280 ATCTATTCCT CCACTAGTAA ATGGTAATTC CAAAACAGAG TTTACTTCGT TAAATGTAAG 26340 CCAATATTTA ACTITATCTT TATACCTTTC TAAAACTGTT CGAGCAAATT TTTCATAAAA 26400 ATGAATCATT CTCCTATCAA CCCATCCATG ATATTTTCTT GCTAAATATA ATGGAGTCTC 26460 ATAGTGTGAA AGAGTTACAA GTGGTTCTAT CCCGTGAGCA TGTAGTTCAT CAAACAATTC 26520 ATCATAATAT TTCAACCCAG CTTCGTTAGG TTCTTCCTCA TCTCCTTTTG GAAAAATTCT 26580 ACTCCATGCA ATAGAAGTAC GAAAAACATT AAAGCCCATT TCAGAAAACA AGGATATATC 26640 TTCCTTATAT TTATGATAAA AATCAATACC TATCAATTTT AAGTTATCTT CTGTAGGATT 26700

TTCTGTTGCT	TCTCCTAATC	CACCTTTGGG	TAACACATCC	TGAACTGATA	AGCCCTTACC	26760
ATCTTCATTA	TATGCTCCCT	CTACTTGATT	AGCTGCAACA	GCTCCACCCC	AAAGAAAATC	26820
ATCTGGAAAA	ATGGTCATAA	CTTTCCTCCA	ТТАТААТАТТ	ACCAGTAATT	CCTTAGAATG	26880
CTCGATTGTC	TGATTATTAG	GTAATACTAA	TACATCTAGA	AAATCATTGG	TATTCGTTAC	26940
AATTACTGGT	GTAACTGTTT	CGTAGCCTTT	AGTCTTGATT	AAATTCAAGT	CCATTTCAAA	27000
AATCAACTGA	TTTTTGAAAA	CTCTGTCTCC	TTCTTCTACA	TGACTAATAA	AACCTTGACC	27060
TTTTAGCTCA	ACAGTATCTA	ATCCAATATG	AATTAGTAAC	TCAACACCCT	CATCACTCTT	27120
CAATCCAATT	GCGTGCTTAG	TCGGAAAAAT	ATTTGTAATT	TTCCCATCAA	ATGGTGCATA	27180
AACCTTACCT	TCACTTGGGA	TAATCGCTAC	TCCGTCTCCA	ATTAGTTTAT	CTGAAAATGT	27240
TTTATCCTGG	ACATCGCTTA	ACGGAATGAT	TTCTCCTGAT	ATAGGAGAAA	ATATCATTTT	27300
TTTATTTGAA	ACTCCAGCTT	CAACTTCTAA	ATTGCTAGAA	CTCTCTTCTT	CATCGATTCC	27360
АААТАТАТАА	GCTAATACAA	AGGTAATAAC	AACCGAAATG	ACCGCCACAA	TTAAAGCATT	27420
TACAATATTT	GATGGCACAT	CAGAATAAAT	AAATTGAGGC	AACGCTATCA	AAGATGGGAC	27480
AGCAAATAGA	TATGCTTTAA	CACTAGTAAG	ACCTGCAAAT	AATCCCGCTA	ATCCACCACC	27540
AATCATAGCT	GCATAAAGCG	GTTTTTTATA	TTTTAAAGTC	ACACCATATA	ATGCAGGTTC	27600
GGTAATCCCT	GCAAGTAAGG	CTGAGAAACC	TGCTGCAAAA	GCAATTTGTT	TTGTATTATT	27660
ATTTTTACTC	TTTAATGCAA	CAGCCATCGA	AGCAGCCCCT	TGAGCTAAGT	TTGACCCTAA	27720
CATTGCTGGA	AGAATTAATA	CGTCTGGAGT	AGCAATAGAT	GCCGCCAAAA	AAATAGGTGC	27780
AAAAGCCCAA	TGCATTCCAG	TCATAACAAT	AAATGGCATA	ATAGCACCAA	GAATAGCTAA	27840
TGTAAGCCAT	CCAGCTACAC	CATACATTTG	CCCAACTAGA	TTTGATAATC	CTTCACCAAC	27900
AATTACTCCA	ATAGGTCCGA	CTACAACTAA	GGCAATACAG	CTTGATACTA	ATAATACTAG	27960
CGTAGGTTGC	AAAAAACTCT	TAGTAATAGC	TAGTGTTAAT	TTAGCAATTA	TTTTTTCAAT	28020
ATATTTCATC	AACCAAACCA	TAATAAGAAT	TGGAACGACT	GATGAACCAT	AACTAGCTGG	28080
TGTCACAGGT	GCACCAAATA	AACTAAGAGG	ATTCCCTGAT	TGCACCATTT	GAACAAAATT	28140
TGGATGGAGA	AGTACACCTG	CTACAGACAT	AGCTAATGTA	GATGTTACTT	TTAATTTTTG	28200
TGATGCAGAA	TAAGCTAATA	ACAGCGGTAA	GAAATAATAT	GGAGCATCCC	CAAAAAATGT	28260
CAAAAAGCA	ATAGTCTGAG	AATCTGATTG	CAATATACCA	AGCATTGGTA	AAATGATTAC	28320
CAAGACTTTC	AACATACCTC	CCCCTAACAT	TGCTGGAATG	ATTGGAGTCA	TGGAACCAGC	28380
GATATACTCA	ATGATTCTTT	CTAAAATATT	CCCTTTGTGC	CCTTGAACAA	CTGAATCGGA	28440

			956			
TTCAAAATTG	CCAAGTTTAA	CGAATTCTTT	ATAATAATTA	GCTACATCAT	TACCAAGTAT	28500
AATTTGATAT	TGTCCATTCT	TTTTCATAAT	ACCTATTACA	CCTGGTATCT	TCTTCACATC	28560
ATCATCATTG	ACTAAATTTT	CATCTTTTAA	TTCTAATCTT	AAACGTGTTA	CACAATGGGT	28620
AACTCTATTG	ACATTTTTTT	CACCTCCAAT	TACATCGAGG	ATTTTTTTTA	CCGTATCTTT	28680
ATAACTCATG	GTATTCTCCT	ATTCTATTAA	TCTAAATTTT	TTGTTAAGCG	ACGAATATGA	28740
GCCATCAAAT	AAACTAATTC	ACTAGAAGTC	AGCAAATAAT	TGTACTCCGT	TTGTATAAAC	28800
ATTGCTACCT	GTTCACCACA	TTCATATTCT	CTAGGATATT	TATTTTTCAT	TAATGCTAAC	28860
AAGTCTTCAT	CATCATCGTC	GG				28882

### (2) INFORMATION FOR SEQ ID NO: 141:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 12835 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 141:

GCCTATGTCT	TTTTCAAAAA	AATGCTTGAC	TTGAGACGGG	AACTAGGGAA	GTCTAAAGGC	60
GGAAGGCATT	GATTTATACT	CTTCGAAAAT	CTCTTCAAAC	CACGTCAACG	TCGCCTTGGA	120
TTATATATGT	AACTGACTTC	GTCGATGCTT	ATCTACAACC	TCAAAGCAGT	GCTTTGAGCA	180
ACTTGCGGCT	AGTTTCCTAG	TTTGCTCTTT	GATTTTCATT	GAGTATTATA	TTACTTTCTA	240
TTTGTAGGAG	GTGGCTTATG	AAGATTCCTC	TCTTAACTTT	TGCAAGGCAT	AAATTTGTTT	300
ATGTCTTGCT	TACTTTGCTT	TTTCTTGCTT	TGGTTTATCG	TGATGTTTTG	ATGACTTATT	360
TCTTTTTTGA	TATTCATGCG	CCCGATCTAG	CTAAATTCGA	TGGACAAGCA	ATTAAAAATG	420
ACTTATTAAA	ATCAGCATTA	GATTTTCGTA	TTCTCCAGTT	CAATCTAGGT	TTTTATCAAT	480
CATTTATTAT	TCCAATCATC	ATTGTTTTGC	TAGGTTTTCA	ATATATTGAG	CTGAAAAATA	540
AAGTTTTACG	ATTGAGTATT	GGAAGAGAAG	TGAGTTATCA	AGGGTTAAAA	AGAAAGTTGA	600
CTTTGCAAGT	TGCAAGTATC	CCTTGTTTGA	TATATTTAGT	GACTGTGCTG	ATAATTGCAA	660
TTATAACCTA	TTTCTTTGGG	ACTTTTTCTC	CTCTTGGATG	GAATTCTCTA	TTTTCTGATG	720
GAAGTGGTTT	ACAAAGACTC	CTAGATGGAG	AGATAAAAAG	CTATTTGTTC	TTTACTTGTG	780
TCCTACTAAT	CGGTATTTTC	ATCAATGCAA	TCTATTTTTT	ACAAATAGTT	GATTATGTGG	840
GGAATGTGAC	TCGTTCGGCA	ATCACCTATT	TGATGTTTCT	TTGGCTTGGT	TCTATGCTGC	900
TTTATAGTGC	CTTGCCTTAC	TATATGGTTC	CTATGACGAG	TTTGATGCAA	GCTAGCTATG	960

GGGATGTAAG	TTTGATGAAA	CTCTTTACTC	CTTATATCCT	TTATATTGTC	CCTTACATGG	1020
TGCTTGAAAA	ATATGAAGAT	AATGTTTAAG	AATTTTAACA	ATATTTTGCT	AAATAGAAAG	1080
ATTGTTTTAC	TACTTCGTAT	AGTTCTGATG	ATGATTTTGA	TAAACCATCT	ATTGTCAACA	1140
GCGGTTCAAA	AGCAGGATGC	TGTTATCTTT	TTCAAGAGAG	AATTGATTTC	AATTTTTTCC	1200
TATAATGACT	ATTCTGAAGC	GAATTTAGAA	ATCCCCAAAC	TATTGTTAAA	CCTTTCGCTT	1260
TTCATGGTAG	GATGGCTCTC	TGTCATTTTA	CTTGAAAGTG	ATTTGGCAGA	CCATTACCAT	1320
CACTTGATTC	GCTATCAATC	AAGCTCCTTT	TTCGATTATA	CAAGGAAACG	ATTGGTTGTC	1380
ATTTCTAAAT	TTTTTACTCA	AGATTTGTTT	GTCTGGTTTC	TTGGTTTACT	TCCTCTAGGA	1440
ATTCATTTCA	AAACAGTCGC	ACTTTTCTTT	TTACTTGCTC	AGTTAATGAT	GTTGTACTTA	1500
CTACTGTCTT	ATCTGATAGC	ACTGATTAGT	GCGGGCGCTG	GTTTTTCCTT	TTTTCTCTAT	1560
TTTTTAGCAT	TTGTGGGACA	AGAATGGATG	ATGGATCATA	TTGTAACAGT	GTATTTAGTA	1620
CTCTTAAGTT	TATTAGTTAT	GTTGATTGTT	AGTCGCTTGG	AAGAGAAATT	TAAGAAAGGA	1680
TAAACGATGA	GACTTGAAAT	TATAAATGGA	CAGAAAATTT	ATGGGAAAAG	ACCTATTTTA	1740
AATCAGTTGA	ATTTGGTGTT	TCAATCAGGA	AAAATTTATG	GACTTAAAGG	TGATAATGGA	1800
TCTGGCAAGA	CGGTTCTTTT	AAAGATACTT	GCTGGTTATA	TTAAGCTTGA	CAAAGGAAAA	1860
GTTCTTCAAG	ATGGTAAAGT	TTACGGGGTA	AAAAATCATT	ATATTCAGGA	TGCAGGAATT	1920
TTAATTGAAA	AAGTCGAGTT	TTTATCTCAT	TTATCCCTGA	GAGAAAATTT	GGAACTGTTA	1980
AGGTATTTTT	CATCTAAAGT	TACGGAAAAA	AGAATTGCCT	ATTGGATTCA	ATACTATGAT	2040
TTACAGGAAT	TTGAAGACAT	TGAATACCGT	CATTTATCCT	TAGGAACAAA	GCAAAAAATG	2100
GCCTTGATTC	AAGCCTTTAT	TTCCTCTCCT	TCTATACTCT	TTCTCGATGA	ACCTATGAAT	2160
GCTTTGGATG	AGAAGAGTGT	GAGGTTAACC	AAACAGGTCA	TTTTATCTTA	CCTGAAAAAA	2220
GAAAATGGTC	TGGTTATCCT	GACGTCGCAC	ATATCGGAAG	ATATTTCAGA	CCTTTGTACA	2280
GATGTATTAG	TTGTCGAAAA	TGGACATATA	CAAATGTAAA	GGATATACAA	TCCTAGGAGA	2340
TGGCTTATGG	CACATCTAAA	ATCATTTATT	ACACGATATT	CCAAGGTTTA	TATTGGTTTA	2400
GTTCTGCTGA	TCTGGCTGTC	TTTCTTCTTT	ATCCCTTGGG	ATAAACCACT	TCTGGGGATA	2460
AGGATTGACA	TCTTCATCAT	ACAGAAAATC	TTGCTAGCTT	TTGGAATTCT	GTCCATTCTC	2520
ATGGCCTTGC	TGTCCAAGAA	AGTCAGTCTC	TTTGTTTTTG	GACTGATTTG	CTGTCTTTCT	2580
CTTTGGATTA	ACTTATTTAT	CACATTTGCC	ATTTTGCCGA	TTTTTGGCAA	TTAAACAGTC	2640
ATAAAAGTCG	GAGAGGTTAG	CTTGAAAACT	AACCTCTTTT	TCCTTTTCAA	AATGGGGATT	2700

			050			
CTTCCTTGAA	AATAATCAGT	AATTGTGCTA	958 AAATTAAAGG	AACATTCTAA	AATATTCGGA	2760
ATTTAAAGTA	AGGAAAAACA	TGGCTAATAT	TTTAAAAACA	ATTATCGAAA	ATGATAAAGG	2820
AGAAATCCGT	CGTCTGGAAA	AGATGGCTGA	CAAGGTTTTC	AAATACGAAG	ACCAAATGGC	2880
TGCTTTGACT	GACGACCAAC	TAAAAGCAAA	AACAGTTGAA	TTTAAGGAAC	GTTATCAAAA	2940
TGGAGAATCA	CTGGATTCAT	TGCTTTACGA	AGCATTTGCG	GTTGTCCGTG	AAGGTGCCAA	3000
ACGTGTCCTA	GGTCTCTTCC	CTTATAAGGT	TCAGGTCATG	GGGGGGATTG	TTCTTCACCA	3060
TGGTGACGTG	CCAGAGATGC	GTACAGGGGA	AGGGAAAACC	TTGACTGCGA	CCATGCCGGT	3120
ATACCTCAAT	GCCCTTTCAG	GTAAAGGGGT	TCACGTAGTT	ACGGTTAATG	AATACCTGTC	3180
AGAACGTGAC	GCGACTGAGA	TGGGTGAATT	GTACTCTTGG	CTTGGTTTGT	CAGTAGGGAT	3240
TAACTTGGCT	ACCAAATCTC	CAATGGAGAA	AAAAGAAGCC	TATGAGTGTG	ATATTACTTA	3300
CTCAACTAAC	TCAGAAATCG	GATTTGACTA	CCTTCGTGAC	AACATGGTCG	TTCGCGCCGA	3360
AAACATGGTA	CAACGTCCGC	TTAACTATGC	CTTGGTCGAT	GAGGTTGACT	CTATCTTGAT	3420
TGACGAGGCT	CGTACACCTT	TGATTGTATC	AGGTGCCAAT	GCGGTTGAAA	CCAGTCAGTT	3480
GTATCACATG	GCAGACCACT	ATGTAAAATC	TTTGAACAAA	GATGACTACA	TCATCGATGT	3540
GCAGTCTAAG	ACTATTGGTT	TGTCTGATTC	AGGGATTGAC	AGGGCTGAAA	GCTACTTCAA	3600
ACTTGAAAAC	CTCTATGACA	TCGAAAACGT	GGCTTTGACT	CACTTTATCG	ATAACGCCCT	3660
TCGTGCCAAC	TACATCATGC	TTCTCGATAT	TGACTATGTG	GTGAGCGAAG	AGCAAGAAAT	3720
CTTGATTGTC	GACCAATTTA	CAGGTCGTAC	CATGGAAGGT	CGTCGTTATT	CTGATGGATT	3780
GCACCAAGCT	ATTGAAGCCA	AAGAAGGTGT	GCCAATCCAG	GATGAAACCA	AGACATCTGC	3840
CTCAATCACG	TACCAAAACC	TCTTCCGTAT	GTACAAGAAA	TTGTCTGGTA	TGACGGGTAC	3900
AGGTAAGACT	GAGGAAGAAG	AATTCCGTGA	AATCTACAAC	ATTCGTGTTA	TTCCAATCCC	3960
AACAAACCGT	CCTGTTCAAC	GTATTGACCA	CTCAGACCTT	CTTTATGCAA	GTATCGAATC	4020
TAAGTTTAAA	GCGGTTGTCG	AAGACGTTAA	GGCTCGTTAC	CAAAAGGGTC	AACCTGTCTT	4080
GGTTGGTACA	GTAGCGGTTG	AAACTAGTGA	CTACATTTCT	AAGAAATTGG	TTGCAGCTGG	4140
TGTTCCTCAC	GAAGTCTTGA	ATGCCAAAAA	CCACTATAGA	GAAGCCCAAA	TCATCATGAA	4200
TGCTGGTCAA	CGTGGTGCCG	TTACCATCGC	AACCAACATG	GCGGGTCGTG	GTACCGACAT	4260
CAAGCTTGGT	GAAGGTGTTC	GTGAACTTGG	AGGACTTTGT	GTTATTGGTA	CAGAACGTCA	4320
TGAAAGTCGT	CGTATCGATA	ACCAGCTTCG	TGGACGTTCA	GGTCGTCAAG	GAGATCCAGG	4380
TGAGTCACAA	TTCTACCTAT	CTCTTGAAGA	TGATTTGATG	AAACGTTTTG	GTTCTGAACG	4440
CTTGAAGGGA	ATCTTTGAAC	GCTTGAACAT	GTCTGAAGAG	GCCATTGAGT	CTCGCATGTT	4500

GACGCGTCAG	GTTGAAGCAG	CTCAGAAACG	TGTCGAAGGA	AATAACTACG	ATACCCGTAA	4560
ACAAGTCCTT	CAATACGATG	ATGTCATGCG	TGAACAACGT	GAGATTATCT	ATGCTCAACG	4620
TTACGATGTC	ATCACTGCAG	ATCGTGACTT	GGCACCTGAA	ATTCAGTCTA	TGATCAAACG	4680
CACGATTGAA	CGTGTCGTTG	ATGGTCATGC	GCGTGCCAAA	CAAGATGAAA	AACTAGAGGC	4740
AATTTTGAAC	TTTGCTAAGT	ACAACTTGCT	TCCTGAAGAT	TCTATTACGA	TGGAAGACTT	4800
GTCAGGCTTG	TCTGATAAGG	CCATCAAGGA	AGAGCTTTTC	CAACGTTCCT	TGAAGGTTTA	4860
CGATAGTCAG	GTTTCAAAAC	TACGCGATGA	AGAAGCAGTT	AAAGAATTCC	AAAAAGTTTT	4920
GATTCTACGA	GTGGTGGATA	ACAAGTGGAC	AGATCATATC	GATGCCCTTG	ATCAATTGCG	4980
TAACGCGGTT	GGACTTCGTG	GCTATGCTCA	GAACAACCCT	GTTGTTGAGT	ATCAGGCAGA	5040
AGGTTTCCGT	ATGTTTAATG	ATATGATTGG	TTCGATTGAG	TTTGATGTGA	CACGCTTGAT	5100
GATGAAAGCA	CAAATTCATG	AACAAGAAAG	ACCACAGGCA	GAACGTCATA	TCAGTACAAC	5160
AGCGACTCGC	AATATCGCTG	CTCACCAAGC	AAGTATGCCA	GAAGATTTGG	ATTTGAGCCA	5220
GATTGGACGC	AATGAACTTT	GCCCATGTGG	TTCTGGTAAG	AAATTTAAAA	ACTGTCACGG	5280
TAAAAGACAA	TAAAATGAGA	TAGTTTAGAG	GCGGATATCT	TGTGAAAAGT	AAATTTTTAC	5340
TGGGTATCCG	TTTGCTTTAT	AAGGAGATGA	GTTATGGTAT	TTACAGCAAA	AAGCTCTAAA	5400
ATAAATATAG	AAGAAGTTCG	TGCCTTGTCA	AAATTAGAAG	GTCAGGCTTT	GGAGAGGAAA	5460
TCACAGCGAG	ATCAAGAGCT	AGAAGCCATT	ATACGTGGAG	AAGACCAGCG	AATTCTCTTG	5520
GTAATCGGGC	CATGCTCATC	TGACAACGAA	GAAGCTGTCC	TTGAATACGC	TAAGCGTTTG	5580
GCAGTCCTAC	AAGAAGAAGT	GGCAGATCGT	ATCTTTATGG	TTATGCGTGT	TTATACTGCC	5640
AAACCCCGTA	CCAACGGAGA	TGGCTATAAG	GGCTTGATTC	ACCAGCCTAA	CGCGACAGAA	5700
GCGCCTAGTC	TTATCAATGG	AATCAAAGCC	GTTCGCCATC	TTCACTATCG	TGTCATCACA	5760
GAAACAGGGA	TGACAACTGC	TGATGAAATG	CTTTATCCTG	AAAACCTTCC	GCTTGTACAT	5820
GATTTGATTT	CTTACATGGC	AGTTGGTGCC	CGTTCAGTTG	AAGACCAGCA	ACACCGCTTT	5880
GTGGCAAGTG	GGGCAGGATT	TTCTACTGGT	TTTAAAAATC	CAACCTCTGG	AAATCTCAAT	5940
GTCATGTTTA	ATGGGATTTA	TGCTGCTCAA	AACAAACAAA	GTTTCCTTTT	CTTAGGAAAA	6000
GAAGTAGAAA	CAACTGGGAA	CCCGCTTTCA	CACGCTATTC	TTCGTGGTGC	TCTTAATGAG	6060
TATGGAAAAA	ATATTCCCAA	CTACTATTAT	GACAATTTAA	TTGATACCAT	TGCCCAGTAT	6120
GAGAAAATGG	GCTTGGAAAA	TCCTTTTATC	ATCATTGATA	CCAATCATGA	CAATTCTGGT	6180
AAGCAGTATA	TTGAACAGAT	CCGAATTGTC	CGCCAGACCT	TGATTAACCG	TGCTTGGAAT	6240

GAAAAAATTA	AGCAGTTCGT	TCGTGGTTTT	960 ATGATTGAGT	CTTATCTGGA	AGATGGTCGA	6300
CAAAATGAGC	CAGAAGTATT	TGGTAAGTCT	ATCACAGACC	CTTGCCTGGG	TTGGGATAAC	6360
ACAGAAGCTC	TTGTCAGAGA	AATTTACAAA	ACGTTAGGAG	AATAAGATGG	CATTTATTGA	6420
AAAAGGTCAA	GAAATCGATA	TGGAAGTCAT	CAAGGCTGAA	ACCCAATTGT	CTGCGGAAGC	6480
CTTGAGACTC	AAGGAAAGCC	GTGACAGGGA	ATTGGCAGAT	ATTATTTCAG	GGGAAGATGA	6540
CCGTATTCTC	TTGGTGATTG	GTCCTTGCTC	TTCTGATAAT	GAAGAGGCGG	TCTTGGAATA	6600
TGCTCGCCGT	TTATCTGCCT	TGCAAAAGAA	GGTAGCGGAT	AAGATTTTCA	TGGTCATGCG	6660
CGTGTATACT	GCTAAGCCTC	GTACCAATGG	AGACGGCTAT	AAAGGATTAG	TTCACCAGCC	6720
AGATACTTCT	AAGGCTCCAA	GCCTGATTAA	TGGCTTGCAG	GCTGTGCGCC	AGTTGCACTA	6780
CCGCGTGATT	ACAGAGACTG	GTTTGACAAC	GGCAGATGAG	ATGCTTTATC	CGTCAAATCT	6840
GATCTTGGTG	GATGACTTGG	TCAGCTACCA	TGCCGTTGGA	GCTCGTTCTG	TGGAAGACCA	6900
AGAGCACCGC	TTTGTGGCTT	CTGGGATTGA	TGCACCAGTA	GGGATGAAAA	ATCCAACCTC	6960
AGGAAATTTG	GGTGTTATGT	TTAACGCCAT	CTATGCTGCT	CAAAACAAGC	AAACCTTCCT	7020
TTATCATGGG	CAGGAAGTTG	AGACATCAGG	TAATCCTTTG	GCCCATGTTA	TCCTCCGTGG	7080
AGCAGTCAAC	GAGTATGGCA	ATTATATGCC	GAATTACTAC	TATGAAAATC	TACTCCAAGC	7140
CATTGAACGC	TATGAAACCA	TGGGACTTGA	AAATCCTTTT	ATCCTCATTG	ACACCAACCA	7200
TGATAACTCA	GGCAAGCAAT	ATATGGAGCA	GATTCGAATT	GTTCGCCAGA	CCTTGCAGAA	7260
TCGTGATTGG	AATGAGAAAA	TTAAAAAGAC	GGTTCGAGGA	TTTATGATTG	AATCTTACCT	7320
AGCAGATGGT	CGTCAAAACC	AACCAGAGAT	CTTTGGTTGC	TCTATTACTG	ACCCTTGCCT	7380
AGGTTGGGAA	AATACAGAGG	CCTTGGTAGA	AGAGATTTAT	GTTACCTTGA	CAAAATAAGT	7440
GAAAAGGATG	GAGTTGGGGA	ATCTCAACTC	CTTTTGATGA	GAATGATAGT	TGGACACGGA	7500
ATTGACATCG	AAGAATTGGC	TTCGATAGAA	AGCGCAGTTA	CACGACATGA	AGGATTTGCT	7560
AAGCGTGTAC	TGACCGCTCA	GGAAATGGAG	CGCTTCACCA	GTCTCAAAGG	ACGCAGGCAA	7620
ATAGAATATT	TAGCTGGTCG	CTGGTCGGCT	AAGGAGGCCT	TTTCCAAGGC	TATGGGAACG	7680
GGCATTAGCA	AGCTCGGTTT	TCAGGATTTG	GAAGTCTTGA	ACAATGAACG	TGGGGCGCCT	7740
TATTTTAGTC	AGGCACCATT	TTCAGGAAAG	ATTTGGCTGT	CTATCAGCCA	CACCGATCAG	7800
TTTGTGACAG	CCAGTGTCAT	TTTGGAGGAA	AATCATGAAA	GCTAGTCCAC	ATAGACCAAC	7860
CAAGGCTCTG	ATTCATCTGG	GAGCTATTCG	ACAAAATATT	CAGCAAATGG	GGGCTCATAT	7920
CCCTCAAGGA	ACGCTCAAGT	TGGCTGTGGT	TAAGGCCAAT	GCTTATGGTC	ATGGAGCTGT	7980
TGCCGTTGCC	AAGGCAATTC	AAGATGATGT	TGATGGCTTT	TGCGTTTCCA	ATATCGATGA	8040

AGCCATTGAA	CTCAGACAAG	CTGGACTCAG	CAAGCCAATC	CTCATTTTAG	GAGTTTCTGA	8100
AATCGAAGCT	GTTGCTCTAG	CTAAAGAATA	TGACTTCACC	TTGACAGTGG	CTGGACTGGA	8160
GTGGATTCAA	GCACTCTTAG	ATAAGGAAGT	GGACCTAACT	GGATTGACAG	TCCACCTCAA	8220
GATTGATTCA	GGGATGGGAC	GGATTGGTTT	TAGAGAGGCA	AGTGAGGTTG	AGCAGGCTCA	8280
AGATTTGCTC	CAACAACACG	GTGTTTGTGT	TGAAGGAATC	TTTACCCACT	TTGCTACTGC	8340
TGATGAGGAA	TCAGATGACT	ATTTTAATGC	CCAGTTAGAA	CGGTTTAAAA	CTATTTTAGC	8400
TAGTATGAAG	GAAGTTCCAG	AGCTGGTTCA	TGCTAGCAAT	TCTGCAACGA	CTCTTTGGCA	8460
TGTAGAGACT	ATTTTCAATG	CGGTTCGTAT	GGGAGATGCC	ATGTATGGCC	TCAATCCAAG	8520
TGGAGCGGTC	TTGGATTTGC	CTTATGATTT	GATACCGGCC	TTGACCTTGG	AGTCTGCTCT	8580
GGTTCATGTC	AAGACAGTTC	CAGCTGGAGC	TTGCATGGGC	TATGGAGCAA	CTTATCAAGC	8640
GGATAGCGAG	CAAGTCATCG	CGACCGTGCC	AATCGGGTAT	GCAGATGGAT	GGACAAGAGA	8700
CATGCAAAAT	TTCTCTGTCT	TGGTAGATGG	CCAAGCTTGC	CCAATTGTCG	GCAGGGTTTC	8760
GATGGACCAA	ATCACTATTC	GATTGCCTAA	GCTTTATCCG	CTAGGAACCA	AGGTAACCTT	8820
GATTGGCTCC	AATGGGGATA	AGGAAATCAC	TGCAACTCAG	GTAGCGACCT	ACCGCGTAAC	8880
CATTAACTAT	GAGGTGGTTT	GCCTCCTCAG	CGACCGTATT	CCGAGAGAAT	ATTATTAGAA	8940
AAGAAAGGAG	TGGAGCATGA	ATCTACATCA	ACCCTTGCAT	GTCTTGCCTG	GTGTGGGACC	9000
AAAGTCAGCA	GAAAAATACG	CCAAACTAGG	AATTGAAAAC	TTGCAAGATC	TCTTGCTCTA	9060
CTTTCCTTTC	CGTTATGAAG	ACTTCAAAAC	CAAGCAGGTG	CTGGAGCTGG	AAGACGGTGA	9120
GAAGGCAGTT	CTTTCTGGTC	AGGTAGTGAC	TCCTGCTAGT	GTCCAGTATT	ATGGTTTCAA	9180
GCGCAATCGC	CTGCGTTTTA	GTCTCAAGCA	GGGAGAGGTC	GTTTTTGCGG	TGAATTTCTT	9240
TAACCAGCCC	TATCTGGCTG	ATAAAATAGA	GTTGGGAGCA	ACCCTTGCTG	TCTTTGGAAA	9300
ATGGGACCGC	GCTAAGGCTA	GTCTGACTGG	GATGAAGGTT	CTGGCTCAGG	TAGAAGATGA	9360
CCTCCAGCCT	GTCTATCGTC	TGGCTCAGGG	AATCAGTCAG	GCCAGTCTGG	TCAAGGTCAT	9420
CAAGACGGCT	TTTGATCAGG	GACTGGACCT	CTTGATAGAA	GAAAATCTGC	CCCAGTCTTT	9480
ACTAGACAAA	TACAAACTCA	TGTCCCGTTG	TCAGGCAGTC	CGTGCTATGC	ATTTTCCAAA	9540
GTATTTGGCA	GAATACAAGC	AGGCTCTTCG	CCGTATAAAG	TTTGAGGAAC	TCTTTTATTT	9600
CCAAATGCAG	CTGCAGATGC	TCAAGTCTGA	AAATAGAGTT	CAGGGAAGTG	GTCTGGTTCT	9660
GAATTGGTCT	CAGGAAAAAG	TGACAGCAGT	TAAAGTAAGT	CTTCCTTTTG	CCCTGACCCA	9720
AGCTCAGGAA	AAGAGTTTGC	AGGAAATTTT	AACTGATATG	AAGTCCGACC	ACCACATGAA	9780

			962			
TCGTCTCCTA	CAAGGGGATG	TGGGGAGTGG	, , ,	GTCGCTGGCT	TGGCCATGTT	9840
TGCGGCAGTG	ACAGCAGGTT	ATCAGGCTGC	CCTAATGGTA	CCAACAGAAA	TCCTCGCAGA	9900
GCAACACTTT	GAGAGTTTAC	AGAACCTTTT	TCCCAATTTG	AAACTGGCTC	TCTTGACAGG	9960
TTCCTTGAAA	GCTGCAGAAA	AGAGAGAAGT	CTTGGAGACC	ATTGCCAAGG	GTGAGGCTGA	10020
TTTGATTATA	GGAACTCACG	CTCTGATACA	AGATGGGGTG	GAGTATGCTC	GTCTTGGTTT	10080
GATTATTATC	GATGAGCAGC	ACCGTTTTGG	TGTAGGGCAA	AGGCGTATTT	TACGGGAAAA	10140
AGGTGACAAT	CCAGATGTCC	TCATGATGAC	GGCGACTCCC	ATTCCACGGA	CGCTTGCCAT	10200
CACAGCCTTT	GGAGATATGG	ATGTTTCCAT	TATCGACCAG	ATGCCAGCAG	GTCGGAAGCC	10260
TATTGTGACG	CGCTGGATCA	AACATGAGCA	ACTACCTCAG	GTCTTGACTT	GGTTAGAGGG	10320
GGAAATTCAA	AAAGGTTCCC	AAGTCTATGT	CATCTCTCCT	TTGATTGAAG	AATCAGAAGC	10380
TCTAGATTTG	AAAAATGCCA	TTGCCTTATC	AGAGGAGTTG	ACGACTCATT	TTGCAGGCAA	10440
GGCAGAGGTG	GCTCTTCTAC	ATGGTAGGAT	GAAGAGTGAC	GAAAAAGACC	AGATCATGCA	10500
GGATTTCAAG	GAGAGAAAGA	CGGATATTCT	GGTTTCGACG	ACGGTTATTG	AGGTTGGGGT	10560
CAACGTTCCC	AATGCGACTG	TCATGATTAT	CATGGATGCC	GATCGCTTCG	GTCTCAGTCA	10620
ACTTCACCAG	CTTAGAGGTC	GTGTCGGTCG	GGGGGACAAG	CAGTCCTACG	CTGTTCTCGT	10680
TGCTAATCCC	AAGACGGATT	CTGGGAAAGA	CCGCATGCGT	ATCATGACAG	AAACGACCAA	10740
TGGATTTGTC	CTTGCGGAGG	AAGATTTGAA	AATGCGTGGT	TCTGGTGAGA	TTTTTGGAAC	10800
CAGACAGTCA	GGACTTCCAG	AGTTCCAAGT	GGCTGATATT	ATCGAAGATT	TTCCGATTTT	10860
AGAAGAAGCA	AGAAAGGTTG	CTAGCTACAT	TAGTTCTATA	GAAGCTTGGC	AAGAAGATCC	10920
AGAGTGGCGC	ATGATTGCCC	TTCATCTGGA	AAAGAAAGAA	CATCTGGATT	AAGCTTTCTC	10980
TAAGGAAAAC	TTATACTCAA	TGAAAATCAA	AGAGCAAACT	AGGAAGCTAA	CCGCAGGTTG	11040
CTCAAAACAC	TGTTTTGAGG	TTGTGGATGA	AACTGACGAA	GTCAGCTCAA	AACACCGTTT	11100
TGAGGTGGCA	GATAGAACTG	ACGAAGTCAG	ТААСАТАТАТ	ATACGGTAAG	GCGACGCTGA	11160
CGTGGTTTGA	AGAGATTTTC	GAAGAGTATT	AAGCTAGTTT	TTAGGTTTGG	CTCTTATACT	11220
AGAGTCATCA	AAAAGAAACG	AGGACTCTCA	TATGACAGTA	ACGATTAAAG	TAAATTACCA	11280
AACCACTTTC	CAAAAGAAGG	AAGCAAAAAA	CTAGTATAAA	CAGAAGAGAG	AGCGAAATGC	11340
TCTTTTTTCG	TTTCTAAAAC	TACTTTCAGC	CCATCATCCT	AAAAGTAAAG	AATCTAAATT	11400
CACTTTCTAT	TTACCCTTCT	TTCTTGCATT	GATTACATAG	ATATGCTACA	GTTGTGGTAA	11460
CGATTACAAA	ATAAAAGGAG	CATGCTATGA	AAAATCCAGC	TTTGCTAGAA	GAAATTAAGA	11520
CCTATAGAGG	AAGGGATGAG	GTTCCGGAAG	ACTTTGATGA	TTTCTGGGAT	GGGGAAGTGA	11580

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AAAATGTTTC	CACGCTTCCA	TCCTACCACT	TGGAGGAAAG	AGATTTCCAC	ATTCCTCAAG	11640
TCAAGTGCTA	TGAGTTAACA	TTTGAAGGAA	GCAAGGAAGG	AAAGGTCTAT	GCACGCATTG	11700
TTCTTCCAAA	GAGTGAGGAG	AAGGTCCCAT	TAATCTTCCA	TTTTCATGGT	TATATGGGAC	11760
GTGGCTGGGA	CTGGGCCGAC	ATGCTGGGCT	TCACCGTAGC	TGGTTACGGT	GTTGTTTCCA	11820
TGGATGTGCG	GGGCCAGTCA	GGTTACTCAC	AAGACGGCTT	GCGTTCTCCT	TTAGGAAATA	11880
CCGTGAAGGG	GCATATTATC	CGTGGTGCTG	TGGAAGGTCG	GGACCACCTC	TTTTATAAGG	11940
ATGTTTATCT	GGATATTTAC	CAGTTGGTCG	AAATTGTTGC	TAGTCTGTCT	CAGGTTGATG	12000
AGAAGCGTCT	TTCTAGCTAT	GGTGCCTCAC	AAGGAGGGC	TCTAGCTCTA	GTTGCAGCAG	12060
CGCTCAATCC	TCGAATTCAG	AAAACAGTTG	CCATTTATCC	CTTCTTGTCA	GACTTCAGAC	12120
GGGTGATTGA	GATTGGTAAT	ACTAGCGAGG	CTTACGACGA	ACTTTTCCGT	TATTTCAAGT	12180
TTCACGACCC	CTTCCATGAA	ACAGAGGAGG	AAATCATGGC	GACCCTTGCC	TATATCGATG	12240
TCAAAAATCT	TGCCCATCGT	ATCCAAGGTG	AGGTTAAGAT	GATTACGGGC	TTGGACGACG	12300
ATGTTTGCTA	TCCCATTACC	CAGTTTGCGA	TTTATAATCG	TCTGACCTGC	GATAAAACCT	12360
ATCGCATCAT	GCCTGAGTAT	GCTCACGAAG	CCATGAATGT	ATTTGTCAAT	GACCAAGTCT	12420
ACAACTGGCT	CTGTGGAAGT	GAGATTCCTT	ттааататст	AAAATAAGGA	GTCGACTCTA	12480
AGCACAAAAT	СТТАААААТТ	ACAAACACGC	ATAGTATCAG	GGGATTAAGA	AAACTTTATA	12540
CTATGCGTTT	TATCATGGAA	ATATAGTAAA	ATGAAATAAG	AACAGGACAA	ATCGATCAGG	12600
ACAGTCAAAT	CGATTTCTAA	CAATGTTTTA	GAAACAAATG	TGTACTATTC	TAGTGTCAAT	12660
CTATTATATT	TATAGAATTT	TTTGTTGCTA	GATTTGTCAA	ATTGCTTAAA	ATAATTTTTT	12720
rcagaaagca	AAAGCCGATA	CCTATCGAGT	AGGGTAGTTC	TTGCTATCGT	CAGGCTTGTC	12780
rgtaggtgtt	AATACTTTTC	AAAAATCTCT	TCAAACCACG	TCAGCTTCGC	CTTGC	12835

## (2) INFORMATION FOR SEQ ID NO: 142:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 5020 base pairs
    (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 142:

GGGGATATGA AGAACAAAAG AATATTTAAA GACTTCCAAG CTTCAAAAAT GAGTTTAAAC 60 ATTTACACAA GCCCCTTGTT AGCCTTTGTT TTTGTCTTCA TAGGAGAGTT TGTGGCTTTT 120

964 ACTTTGTATG GTATTGGCTT GTTAGCTCTC ATCGGACTTG CTAGAAATTT TGGAGAGGCT 180 GGTCAAAATC TTGCAAGCTA CTTGCAGACC TTGCATCAGA GCTTGACGGA TAAAACAAGT 240 GACTTTCGTT TAATTTTAGG ATTACTGGCC TTTGGTTATT CTTAACACTG TGTTCAGATG 300 GACAAGAAAA GTTGAGAAAA GACCTATTCG AACCTTGGGA TTTTATAGAG AGAATTTCCT 360 CAGCAATCTT CTGAAAGGAT TTAGTCTAGG CCTGGCACTT TTTCTTCTGA CCTTGTTAGG 420 TTTAGTGGTC TTAGGTCAAT ATCGTTTGGA ATCCATTCAC TTGAATCCTT ATTCTCTTGC 480 CTTTGTCGTC TTTACTATCC CATTTTGGAT TTTACAGGGG ACAGCAGAAG AAGTGGTGGC 540 CCGTGCTTGG CTACTTCCTC AATTGGCCTC AAGAACCAAT CTAAAACTAG CTATTCTTAT 600 ATCTAGCCTG TTCTTTACCC TGCTTCATAT GGGCAATTCT GGTCTCACCC CTCTATCTCT 660 AGTAAATCTC TTTTTATTCG GAGTTGCCAT GGCTCTTTAC CTTCTCAAAA CTGATACAGT 720 TTGGGGTGTT GCAGGTATTC ATGGTGCTTG GAATTTTGCT CAGGGTAATC TCTTTGGGAT 780 TTTAGTTAGT GGTCAACCGT CAGAACGTCT CTGATGACCT TTTTACCACA AGGCAATCAA 840 GATTGGCTAT CAGGTGGTTC TTTTGGCATA GAAGGTTCCA TTATGACAAG TCTGGTATTA 900 CTACTGCTGA TTGTCTATCT TGCTAATAAA TTAAAGAAAG AAAATGAAAG GATGTGACTT 960 CGGTCCGTCC TTTTCTTCGT GAAAATACTA TAAGTATGCT AAAATAGGAA TAGCACATGG 1020 AGAGAGGATT CTTATGATCA ATCACATTAC AGATAATCAA TTTAAACTAG TATCAAAATA 1080 TCAACCATCA GGAGATCAAC CCCAAGCTAT CGAGCAGTTG GTGGATAACA TTGAGGGGGG 1140 AGAAAAAGCT CAGATTCTGA TGGGGGCGAC TGGAACAGGG AAGACCTATA CTATGAGTCA 1200 GGTCATTTCT AAAGTCAATA AACCAACTCT GGTTATTGCC CACAATAAAA CTCTGGCTGG 1260 TCAGCTCTAT GGGGAGTTTA AGGAATTTTT CCCTGAAAAT GCAGTTGAGT ATTTCGTATC 1320 CTACTATGAT TATTACCAGC CAGAGGCCTA TGTCCCTTCT AGCGATACCT ATATTGAGAA 1380 GGATAGTTCT GTCAATGACG AGATTGACAA GCTTCGCCAC TCAGCTACCT CAGCCCTTTT 1440 GGAGCGTAAT GATGTTATTG TCGTGGCCTC AGTCTCTTGT ATCTATGGTT TGGGTTCGCC 1500 CAAGGAATAC GCTGATAGTG TCGTTAGTCT CCGTCCTGGT CTAGAGATTT CTCGTGATAA 1560 ACTCTTGAAT GACTTGGTCG ATATTCAGTT TGAACGTAAT GATATTGATT TCCAACGCGG 1620 AAGATTTCGC GTTCGTGGGG ATGTGGTAGA GATTTTCCCA GCTTCCCGAG ATGAACATGC 1680 CTTTCGAGTA GAATTTTTTG GAGACGAAAT TGACCGTATT CGTGAAGTTG AGGCTCTGAC 1740 AGGTCAGGTG TTGGGAGAAG TGGATCATTT AGCGATTTTC CCAGCGACAC ACTTTGTGAC 1800 CAATGACGAC CACATGGAAG TTGCCATTGC AAAGATTCAG GCCGAGTTGG AAGAACAATT 1860 AGCTGTCTTT GAAAAGGAAG GTAAACTGCT TGAAGCCCAG CGTTTGAAAC AGCGGACAGA 1920

GTATGATATC	GAAATGTTGC	GTGAGATGGG	CTATACCAAT	GGGGTTGAAA	ATTATTCTCG	1980
CCACATGGAT	GGACGGAGCG	AAGGAGAGCC	TCCTTATACG	CTTCTCGACT	TCTTCCCAGA	2040
TGATTTCTTG	ATTATGATTG	ACGAGAGTCA	TATGACCATA	GGGCAAATCA	AGGGCATGTA	2100
CAATGGAGAC	CGTTCGCGTA	AAGAAATGCT	GGTTAATTAT	GGTTTCCGTT	TGCCGTCTGC	2160
TTTGGACAAT	CGTCCTCTCC	GTCGGGAGGA	GTTTGAGAGT	CACGTTCATC	AGATTGTTTA	2220
CGTTTCAGCG	ACACCTGGTG	ACTATGAAAA	TGAACAGACC	GAGACAGTGA	TTGAGCAAAT	2280
CATTCGTCCA	ACGGGACTCT	TGGATCCAGA	GGTGGAAGTC	CGTCCGACTA	TGGGACAGAT	2340
TGATGACCTC	TTGGGTGAAA	TCAATGCCCG	CGTTGAAAAA	AATGAGCGTA	CCTTTATCAC	2400
AACTTTGACC	AAGAAAATGG	CAGAGGATTT	GACCGACTAC	TTCAAGGAAA	TGGGTATCAA	2460
GGTCAAGTAC	ATGCACTCGG	ATATCAAGAC	CTTGGAACGG	ACGGAGATTA	TCCGTGACCT	2520
GCGCTTGGGT	GTCTTTGATG	TCTTGGTCGG	AATTAACCTG	CTCCGTGAAG	GAATTGACGT	2580
TCCTGAAGTG	AGCCTCGTAG	CTATTCTCGA	TGCTGACAAG	GAAGGTTTCC	TTCGCAACGA	2640
ACGTGGACTC	ATCCAGACCA	TTGGACGTGC	TGCACGTAAT	AGCGAAGGTC	ATGTTATCAT	2700
GTATGCGGAC	ACGGTTACCC	AGTCTATGCA	ACGTGCTATC	GATGAAACTG	CCCGCCGTCG	2760
CAAAATCCAG	ATGGCCTATA	ATGAAGAACA	TGGTATCGTT	CCACAAACCA	TCAAGAAAGA	2820
AATCCGTGAC	TTGATTGCTG	TGACCAAGGC	AGTTGCTAAG	GAAGAAGACA	AGGAAGTCGA	2880
TATCAATAGC	CTCAACAAAC	AAGAGCGCAA	AGAACTAGTC	AAAAAGCTTG	AGAAACAAAT	2940
GCAAGAAGCA	GTTGAAGTGC	TTGACTTTGA	ACTAGCAGCT	CAGATTCGTG	ATATGATGCT	3000
GGAAGTCAAG	GCCTTGGATT	AGGGGAATAG	TATGATTTAT	TTAAGAAAGT	TAAAGAAAGA	3060
AGATTTGATG	TCTTTATGGG	AAATGGCTTA	TTCACAGCTT	AATCCAGTTT	GGAAACAGTA	3120
TGATGCTCCC	TATTATGATG	ATTATCAGTA	TTTTTCAAAT	TTTAAAGAAT	TCGAACTACA	3180
AAAATCAGAA	TCCATTTTAA	GCAACTCAAA	TCGCCTTGGT	ATTTTTGTTG	ATGATAAACT	3240
AGTTGGGACT	GTTTCGCGTT	ATTGGGTATG	TAAAGAAACA	AGATGGATGG	AATTGGGAAT	3300
TGGTATTTAT	GATAAAAAAT	TCTGGAACAC	TGGTATTGGG	AAAGTTGCTA	TGTTGCAGTG	3360
GATAGATAGG	ACGTTTCAGG	ATTACTTGGA	GTTGGAGCAT	CTGGGTTTGA	CAACTTGGTC	3420
AGGAAATATT	GGTATGATGA	AACTTGCTGA	AAAATTAAGA	ATGAAAAAAG	AAGCTCATAT	3480
TCCAAAAGTT	CGTTATTATC	AAGGTAAATA	TTTTGACAGT	ATTAAATATG	GTATTTTGAG	3540
AGAAGACTGG	GAGAAAATAA	ATGACGGTTA	TTATCAAATC	AATGGAAACT	CCTGAAGAGA	3600
TAGAAGGTAA	ATCCTTCGTT	CACTGGCAAA	CGTGGAGAGA	GGCTTATGAT	GACCTTTTGC	3660

CTGCGGAATT	TCAGGAGACA	ATGACATTAG	966 AAAGATGTCG	ACTCTTTAGT	CAAAAGTATC	3720
CAGAAAATAC	ATTGATTGCG	ATGGATGGTG	TGAAGATAGT	TGGTTTTATA	AGTTATGGCA	3780
ACTGTCGTGA	TGAGACTATT	CAAGCTGGTG	AAATTATTGC	TTTATATGTT	TTAAAAGACT	3840
ATTATGGAAA	AGGAATCGCA	CAAAAGTTAG	TGAAAGCAGC	TTTGACTGAT	CTTAATCATT	3900
TTTCTGAAAT	TTTCTTATGG	GTATTGAAAG	ATAACAAGCG	CGCCATTGCT	TTCTATCAAA	3960
AAATGGGTTT	TACTTTTGAT	GGACAAGAAA	AAATACTTGA	ACTTGGAAAG	CCTATAAAGG	4020
AAAAACGGAT	GGTATTCTAT	ТСТАААТААТ	TCTCAAAAGT	AAAAGCTAAT	ATGGTACCAA	4080
GTCTGAAAAT	ТТААТАААТТ	AGAAAGCGAG	TAAATTTATG	TCCCGTTCCC	AATTAACAAT	4140
ТТТААСАААТ	ATCTGTCTGA	TTGAAGACCT	CGAAACTCAG	CGCGTGGTGA	TGCAGTATCG	4200
CGCCCCTGAA	AACAATCGCT	GGTCTGGTTA	TGCCTTTCCT	GGAGGTCATG	TAGAAAATGA	4260
TGAGGCTTTT	GCGGAGTCTG	TCATTCGTGA	AATCTACGAA	GAAACAGGGT	TGACTATCCA	4320
AAATCCTCAA	CTTGTCGGCA	TTAAAAATTG	GCCACTAGAT	ACAGGTGGGC	GCTATATTGT	4380
CATTTGTTAT	AAGGCGACTG	AGTTCTCTGG	TACCCTTCAA	TCTTCAGAAG	AGGGAGAAGT	4440
TTCTTGGGTG	CAAAAAGACC	AGATTCCAAA	CTTAAATCTG	GCCTATGATA	TGCTACCATT	4500
GATGGAAATG	ATGGAAGCTC	CCGACAAGTC	AGAGTTTTTC	TACCCTCGCC	GTACAGAAGA	4560
CGATTGGGAA	AAGAAAATCT	TCTAGTCTTT	ТАСТАААТАА	CCTAGCTGAT	CCAAGGCCTC	4620
CTCGATATAG	TGGAGGTCTT	GTTGTGTCTC	GGCTTCAACT	AGGTGATAAT	GAATACCATC	4680
TGTTAACTCA	GAAATTGGCT	TAAAGTCAGA	ACGTTCAACT	TGTTCTAGAA	AATGTTGCAC	4740
GTCGCGGCGA	CAGGTCAGTT	TTAGTAAGGT	TTCAATCTCT	CCATAAACAG	GATGATCAAT	4800
CAAGATATTT	TGAACGCGAC	CACCATTATC	TACGATAGCA	AGTAATTCTC	GTCCAATTTC	4860
TTCAACTTCA	TGCTTGACCT	ТАААТААТТТ	GTGATGATAA	GTATTTGCAT	TAGCATCTTT	4920
ATAGATATAA	CCACGATTGG	TAGATAGAAT	TGGAGATCCA	TCAGCTCTTA	AAATTGCAAT	4980

5020

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- (2) INFORMATION FOR SEQ ID NO: 143:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 4965 base pairs
      (B) TYPE: nucleic acid
      (C) STRANDEDNESS: double

ATCTTGAACA ATAACTTGTC GAGTGACATG AAAGTGCTCA

- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 143:

AAAAAGTGGC AATCCATTGA TTGGCCACTT CATTTAGAGA ATTATCGTCT CGCCCTTGAA

GAAGAAGGTC	GTGTAGTACT	TGAGTTACTG	CTATCGCTAG	AACTACTACT	TGAACTGCTG	120
GAGCTGGATG	GAGTTGGTAG	ACTCCCCACA	ATACTAGACC	AAGCATTCTG	ATAATCCGCA	180
TCACTTCCGC	CAATAGCAAA	GCGATAACTT	GTCGCTGGCG	CTCCTGACTT	ATTAGCCCAA	240
TAGCTGGTAA	CAGTCGAACC	TGTGACCTCT	ACTTCTTTTC	CTTCAACAGA	AACCTTCTCT	300
GGTTTTTGAC	CTGTTGATTT	CAAGACTTCC	GATTTCACTA	CACTAGGATC	TAAAGCAAAG	360
CGCTCGTTCC	CCCAAATGCT	TGGGGAAGCT	TGCTGAATCG	CATTTACCAG	ATGAGCCATG	420
TAATTAGAGT	TATTAGAATA	ACCTGCTCTA	CGTGACAATG	AATGATTATC	ATCATGCCCA	480
ATCCAGCCAC	CTAGGGTTAA	TCTAGGTGTC	GAAAGCATGA	GCCACATATT	TTCGTCTTGG	540
TTGGTTGTAC	CAGTCTTCCC	AATCCAATCT	GCATTAGCCA	GAGTAGGATT	TAAAGAAGTC	600
AGGTTAGACT	TGAAGGTTGT	TGTCACACGA	GAGGATAGAA	CTTCTCGTAG	CAATCCCTGC	660
ATAATCGTCG	CAGTAGCTTT	TGAATAGACT	TGAACCGGTT	TATCCTGATA	CTCATACACC	720
ACTCTACCAT	CTGCTGCTTC	AATCTTTGAA	ATCACATGCT	TCTGATGATA	AACTCCATTA	780
TTAGCTAAGG	TCTGATAGCC	ATTGGTATGC	TGGGCAACTG	TGACTTCAAT	ACCACCACCC	840
ATTGGCAAGC	TCTCAATACC	GTACTCAGGA	ATCTCGTAAC	CCATCTTTTC	CATATAACCC	900
TTGACATCAA	CACCCTTTTC	ACGGAGCATA	CGATAGGTCC	AGTAAGCAGG	GATATTCCAT	960
GAATAGTTCA	GAGCTTCTCC	CAAGGTCATC	ATTCCTGTTC	CCTTGCTATT	AGCATACATA	1020
ATCGGATTGC	CATTAGCAAA	GTTTGTTGGA	TAGTTAGATA	GAATCGTTTC	ACTTCCCATC	1080
AAGCCCTGGT	CAATAGCAAT	ACCGTAGGCC	AGCAAGGGCT	TGGTAGTAGA	AGCTGGCGAA	1140
CGTTTGGTAT	CAAAGGCATG	ATTATTTTGA	TTTTCTTGAT	AATTACGACC	ACCTACAAAG	1200
CCTAGAATAG	CACCTGTTTG	GTTATCCATC	AAGACATTCC	CTACTTCTAC	ACGACCTGTT	1260
CCATCGTCTA	AAAGATAGCC	ATAATCAGCA	ACCGCACTTT	GCATGGCAGA	ATGAATTTTC	1320
TGATCTATGG	TAGTAGTAAT	CTTATAACCA	CCATTTTCAA	TTTCCTTGGC	TGCCAAATCT	1380
CGATAAAACT	TCTGAGTTGC	CTCATTTTTC	AACTCCTTAG	CGGAGACATT	GTCTCTCTGA	1440
GCTAGATAGT	CATACATACG	TTCTTGAGCT	TCTGCCAAAG	TTGTAAAGTA	TAAATAGTCT	1500
CGTGAAATTC	CTGTAACCGT	GCCCGATGGT	AAAAAGTCCT	GTTTAAGGTC	ATAATCCTTG	1560
TACTGAGAAT	ACTCGTCTTT	GCTTAATGCA	CCTGTACGAT	ACATACTGTA	AAGAACTGCC	1620
TTAGCCCGTC	TTAAGCCAAT	TTCTAGGTCT	TCATCACTCT	TCAACTCCCC	AGTATTTTCA	1680
TAAGGAGAGT	AAGTAATGGG	ACTCTGTGGA	AGTCCTGCTA	AAAATGCTGC	TTGAGGAACA	1740
GTCAACTGAC	TGGCATCTAC	ACCGAAAATT	CCCTCAGCTG	CTTGCCGAGC	CCCTGCAATA	1800

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TTCTGTCCCT TATTATTTCG GCCAAAGGGA GCCACATTGA GATAGGTCGT TAAAATCTCA 1860 TCTTTATTCA TGGCGCGTTC CAAGGCAAGA GCATCCACAA TCTCTGCCGC CTTACGAGCC 1920 AAGGTCGGCG CATCCCCAAC CACCTGCTGT TTAATTAGTT GCTGGGTCAA GGTTGAACCC 1980 CCACTAGAGG AACCCAAACC TACAAATTTC CCCAAGGTCG CACGAATCAC CGCCTTGGGT 2040 ACTACACCCT TATGTTCTTT AAAGTGTTCA TCTTCTGTCG CAATGATAGC CTTCTTCAGA 2100 TTTTCCGAAA TTTGCTCAGA TGAGATAGAA GTGCGCAACA AATCACTCTC TATGGAAGCA 2160 ATCACCGTCC CGTCCGAATA GGTAATCTCT GAAATAGAAG AGATGTCCTT GACCTGATTC 2220 ACCAATTCTT CTGTCTGAGG CACCCGAACC TTGTCAAATA AGGCCACTCC GTATCCCAAA 2280 GCAATCCCAG CTCCCAACAT TCCTCCTAGA AAACCGAGTA CAAAGAGTAA GTTAAATAAG 2340 GCTTTTATAC TCAGTAAAAT AGCTGGGAAA ATGACTGACT TATCTAAGGT TTTAGATTTT 2400 TTGGTACTTG AACCTTTCTT GCCAGGTCTA GCTGATTTTT TATTTTTTTT TTTTTTGCTGG 2460 AAAAATTCCA GCATTTTTCG TTTTAATTCA TTTAATTGAT TTTGCATGGA TTTCCTCACT 2520 TTATCTATTA TACCACAAAA GGGAAATTTT CAATAAAATA GCCACTTTCT TCCCTATTCT 2580 GCTAGGCTAT TGCCCAAGTT TGTGATACAA TAGGTAGAAA CAATAATTTT AAAAAGGAGA 2640 AAAAACACAT GCACATTTTT GATGAGCTAA AAGAGCGTGG TTTGATATTT CAAACGACTG 2700 ATGAAGAAGC TTTGCGTAAA GCCCTAGAAG AAGGTCAAGT TTCTTATTAT ACTGGCTACG 2760 ATCCAACTGC TGACAGCCTT CACCTAGGCC ACCTTGTCGC AATCTTGACA AGTCGTCGCT 2820 TGCAACTAGC AGGTCACAAA CCTTATGCGC TCGTTGGCGG TGCTACAGGT CTCATCGGAG 2880 ATCCGTCCTT CAAAGATGCT GAACGTAGTC TCCAAACAAA AGACACAGTA GATGGCTGGG 2940 TCAAGTCTAT CCAAGGACAA CTTTCTCGTT TTCTTGACTT TGAAAATGGC GAAAACAAGG 3000 CTGTCATGGT CAACAACTAC GACTGGTTTG GCAGCATCAG CTTCATTGAC TTCCTCCGTG 3060 ATATTGGAAA ATACTTCACG GTCAACTACA TGATGAGTAA GGAATCTGTT AAAAAACGGA 3120 TCGAAACAGG AATTTCTTAC ACTGAGTTCG CTTACCAAAT CATGCAAGGG TATGACTTCT 3180 TCGTCCTTAA CCAAGACCAT AATGTCACTC TTCAAATCGG TGGTTCTGAC CAGTGGGGAA 3240 ATATGACAGC TGGTACCGAA TTGCTTCGTC GTAAGGCGGA CAAGACTGGT CACGTTATCA 3300 CTGTTCCACT AATCACAGAT GCAACTGGTA AGAAATTTGG TAAATCAGAA GGAAATGCCG 3360 TCTGGCTCAA TCCCGAAAAG ACTTCTCCAT ACGAAATGTA CCAATTCTGG ATGAACGTGA 3420 TGGACGCTGA CGCTGTTCGC TTCTTGAAAA TCTTTACTTT CTTGTCACTT GATGAGATTG 3480 AAGATATTCG TAAACAATTT GAAGCAGCGC CACACGAACG CTTGGCTCAA AAAGTCTTGG 3540 CTCGTGAAGT TGTTACACTT GTTCACGGAG AAGAAGCCTA CAAAGAAGCA CTTAACATCA 3600

969

CTGAGCAACT CTTTGCAGGA	AACATCAAAA	ACCTTTCTGT	CAAAGAGCTC	AAACAAGGAC	3660
TTCGTGGTGT GCCCAACTAC	CAAGTACAGG	CAGACGAAAA	CAACAATATC	GTGGAACTGC	3720
TCGTCTCATC TGGTATAGTT	AACTCAAAAC	GCCAAGCCCG	TGAAGACGTC	CAAAACGGAG	3780
CCATCTACGT AAACGGCGAC	CGCATCCAAG	AGCTTGACTA	TGTCTTGAGT	GACGCTGATA	3840
AGTTAGAGAA TGAACTGACT	GTTATCCGTC	GTGGGAAGAA	AAAATACTTT	GTATTGACTT	3900
ACTAAACTAT TCAACATTTA	TCTATAAACA	AAGGAGTTAA	CCTCGAGAAA	GGTAACTCCT	3960
TTTTGCTGTT AATAACTCTC	ATCTATCTAT	TTTTAATAGA	CAGGCTACGC	AGGACAATGC	4020
GCAAGGTTGT TAGATTATGT	AAGATAGAGA	GATTTGAAGG	ACTGAACCAA	TTAAATAAGC	4080
CAAAGCCAAT CAAACTACTA	TTTACGACAA	CGGTATCCTG	AATATTTTTC	TTGATGAGTG	4140
TTTGCAAAGA TGATGATAAC	GAATCCAACT	CTTGGAAGAA	ATCCAAACGA	TTATCTAACA	4200
ATAAGATATC ACTCATCTGC	TTAGAAATAT	CTGCACTCTC	ATTCATCACC	ACACCGATAT	4260
CTGATAGAGT TAAAGCCGCT	GAGTCATTCA	ATCCATCTCC	AACCATCAAA	ATAGTGTGAC	4320
CTGCTTTCTG CAGTTTCTCT	ACTAACTCAA	ATTTCCCATC	AGGTTTCAAG	TCTGTATAGA	4380
CCTGATCAAA GGGCAAATCT	TTGACTAATT	CCTCTGTCCT	AATCAAGGTG	TCTCCTGTTG	4440
CCAGAATCAA TTTTTTCCCC	TGTGCCTTAA	GTTTATCCAA	GGCTGTTTTT	GCTTCTTTTC	4500
TCAAAGGAGT ATGAATGCAG	AACATTCCAA	TCAATTCATT	TTGATAAGCC	AAGAATAAGA	4560
GATTGTAGTG ACTCTTGTAC	TCTTCAATTA	AAGCATTTTG	TTCTGAACTG	ATATGAATCT	4620
GCTCATCCTG CATCAAGACA	TAATTCCCAA	TAAGAACTGG	TTGGCCATCT	ATATGAGATT	4680
TGATCCCCTT GCTTGCGATA	TATTGGAGTT	TCCCATGCAT	TTCCTCATGT	TCAATTCCCT	4740
CTATCTCAGC TTGCTTGACG	ATGGCATTAG	CAATAGGATG	ATAAATGTGT	TCCTCAAGAC	4800
AGGCACTGAT TCTGAGAATA	TCTTCCTCAC	TATAGTCTCC	AAAAGGTAAC	ACCTTTTCAA	4860
CTATAGGATA ACTAGTTGTG	ATTGTTCCTG	TCTTATCAAA	CAAGAAAGTA	TCAACTTCCA	4920
GATATTTCTC CCTGTTGTGG	CCTCTGGCTG	TCATCTCTGT	GCTGG		4965

### (2) INFORMATION FOR SEQ ID NO: 144:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 3232 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 144:

			970			
CAGGGGCGTA	TTACGTGACA	ATTCAATGTA	GGCTGTCGCT	ACTTGCGCCA	AAACAAGGAT	60
TCGATAATGT	CGGATGATAC	TAACGATTAA	ACCGAGCAGA	AAGGATCCCA	AAATTCCCCA	120
AACTGCAATA	TGCAAGGTCA	GAAAGAATGC	CTTTTGATAT	AGTGGTAGAT	ATTGTTCAAC	180
AATGGATCAA	TCCAAAAATA	GAACCTCCCA	TCTAGAAATA	ATACAGTTAT	TGTAGCACTT	240
AAAATCTTCT	TTGGATAATA	TCTATTTTTT	ATTGCCGTTA	TAAGGATTTT	TATCATAGAC	300
ATAAAATTTC	TGAAATTTCC	АААСААААТА	TTTTAAAAGT	TTTGAAAAAG	AGTTAAGATA	360
TTTTTGTAAT	ACACAAAGTA	AACGCTTACT	TATTAAGGAG	GACATTTTAT	GTCATACAAA	420
ACAAGCAATG	CAGAAGGTCA	TGTAGATTTC	ATCAATACCT	ATGATTTGGA	GCCAATGGCG	480
CAACAAGTTA	TTCCTAAAGC	AGCATTTGGC	TATATCGCTA	GTGGGGCGGG	AGATACTTTC	540
ACTTCTTTCC	AGTGATTTTA	GCGTCAGGTT	CTTTTTAGTT	TTTAAAGATT	ATCCGTGAAT	600
TTCTTGCTTA	TTTATGATAA	AATGGGAGTG	TCGCAAAAAA	TGACTCATCG	TATTCAATTT	660
TGAGTAAAAC	TAGGAGGATC	CCATGTCTAC	AGAACATATG	GAAGAACTAA	ATGACCAGCA	720
GATCGTTCGC	CGTGAAAAA	TGGCTGCGCT	CCGCGAACAA	GGAATCGATC	CTTTCGGAAA	780
ACGTTTTGAA	CGTACTGCAA	ATTCACAAGA	ATTAAAAGAT	AAATATGCCA	ACCTCGATAA	840
AGAACAATTA	CACGATAAAA	ACGAAACAGC	TACTATCGCA	GGACGCTTGA	TAACCAAACG	900
TGGTAAAGGA	AAAGTTGGTT	TTGCCCACCT	TCAAGACCGC	GAAGGCCAGA	TTCAGATCTA	960
CGTTCGTAAG	GATGCTGTCG	GTGAAGAAAA	CTACGAAATC	TTCAAAAAAG	CAGACCTTGG	1020
TGACTTCCTT	GGTGTCGAAG	GTGAAGTGAT	GCGTACGGAT	ATGGGAGAAC	TCTCTATCAA	1080
GGCAACCCAC	ATCACACACT	TGTCTAAGGC	TCTTCGTCCT	CTTCCTGAGA	AATTCCATGG	1140
TTTGACAGAC	GTTGAAACAA	TTTACCGTAA	ACGTTACCTT	GACTTGATTT	CTAATCGTGA	1200
AAGCTTTGAA	CGCTTTGTCA	CTCGTTCAAA	AATCATCTCT	GAAATCCGTC	GTTACCTTGA	1260
CCAAAAAGGA	TTCCTTGAAG	TGGAAACACC	TGTTCTTCAT	AATGAAGCCG	GTGGTGCTGC	1320
TGCCCGTCCA	TTTATCACCC	ACCACAATGC	CCAAAACATT	GACATGGTGC	TTCGTATCGC	1380
GACTGAGCTT	CACTTAAAAC	GCCTTATCGT	GGGTGGTATG	GAACGTGTCT	ATGAAATTGG	1440
CCGTATCTTC	CGTAACGAAG	GAATGGACGC	TACTCATAAC	CCTGAGTTCA	CTTCTATCGA	1500
AGTTTACCAA	GCTTATGCAG	ACTTCCAAGA	CATCATGGAC	TTGACTGAAG	GCATTATCCA	1560
ACACGCTGCT	AAATCAGTCA	AAGGTGATGG	CCCAGTCAAC	TACCAAGGTA	CTGAAATCAA	1620
GATTAACGAA	CCATTTAAGC	GTGTTCATAT	GGTGGATGCT	ATCAGAGAAA	TTACTGGTGT	1680
CGATTTCTGG	CAAGACATGA	CTTTGGAAGA	AGCTAAAGCT	ATCGCTGCTG	AGAAGAAAGT	1740
TCCAGTTGAG	AAACACTACA	CTGAGGTTGG	TCACATCATC	AATGCCTTCT	TTGAAGAGTT	1800

971

TGTTGAAGAA	ACTTTAATCC	AACCAACCTT	TGTCTATGGA	CATCCAGTAG	CTGTATCTCC	1860
ACTCGCTAAG	AAAAATCCTG	AAGACCAACG	CTTTACTGAC	CGTTTCGAGC	TCTTTATCAT	1920
GACTAAGGAG	TACGGTAATG	CCTTTACTGA	GTTGAACGAC	CCAATCGACC	AACTTAGCCG	1980
TTTTGAAGCC	CAAGCTAAAG	CCAAAGAACT	TGGTGATGAT	GAAGCGACAG	GAATCGACTA	2040
TGACTACATT	GAAGCTCTTG	AATACGGTAT	GCCACCAACA	GGTGGTTTGG	GAATCGGTAT	2100
CGACCGTCTC	TGCATGCTCC	TCACTGATAC	AACAACTATC	CGTGATGTAT	TGCTCTTCCC	2160
AACAATGAAA	TAAATTCTTA	TCCTCTGGGT	CTTATCAGAG	GATTTTTTGA	TTCAAAAAGA	2220
GACTGAATTT	AAGGAGAAAA	TGAAGTGTAG	TATATTGAAA	TTGAAATAGT	ACACTTTGAT	2280
TTCTAAGACA	TTGTTAGAAA	TTGGTTTAAA	TTCCCTAAGC	AATTTGTGCA	TGTTTTATTT	2340
CATTTTACGA	TAGTACGCTG	AAACTTTTCA	AAAAGTACTA	GAAATTGACT	TGGATTCCCC	2400
AATTGATTTG	TTCAGATTCA	СТАТАААТАА	AAAATTAATA	AGTGGGATAG	GAAGTTAGCG	2460
TCAACTAGGA	TAGTATCTTG	CTTAAACAGT	ATATATGGGA	TTGATATAAG	TCCATAGGTC	2520
CTATTAGAGG	ATGTTCTGGT	GTCTTATTCA	CTTGTTTTTT	ATAGTATTAG	TAGATAGAAT	2580
CAGCAAATAA	AAACCCAAAT	CATTCATACC	TCTCTCAACT	AGATGTAACT	TACAAAACCC	2640
CTGACCTCAT	GAGCCACTTT	CTTCCTCCTC	ATGAGGTCAG	TTTTACTTTC	TGCTGTTCCA	2700
GTATCGTTTT	TCCTCGCTAG	ATTTCCTCAA	AAGGGCAGAC	TCCTCCCTTG	GTGCGTCACA	2760
CGATTTTTC	ATCTCGACTG	TTCTTTAATG	CATCATTAAC	GACGCTTTTC	TTCTAGGTGG	2820
TTCATAAGGA	ACAGGAAGAT	TCAGGTTGAC	TTTTCTAATC	CTAGAATAAA	GTGCTGAAAA	2880
CAATTCGGAA	TAGGCATAGA	GACTAGACAA	TTTGAGGAGC	TGCTTGCGTC	CTGTTCGAAC	2940
ACATTTTCCC	ACCACGTGAA	GAAAAAGATG	GCGGAAGCGT	TTGATTGTTA	AAGTTTGGAA	3000
GTCACCTCCA	GCTAGATGTT	TGAGAAAAAG	ATAGAGATTG	TAGGCGATAC	AGCTCATCAT	3060
CATACGAACT	TCGTTTTTGA	TTAAGGTTGA	ACTATCCGTT	TTATCGCCAA	AAAATCCCTC	3120
CTTCATCTCC	TTGATGAAAT	TCTCGGCTTG	ACCACGTCCA	CGATAAAGCT	GAAACTGGTC	3180
TTGGCTTGTT	CCACTCGTCA	TATTTGTAAC	GAGAGAAATA	ACATCGTAGA	AC	3232

# (2) INFORMATION FOR SEQ ID NO: 145:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 10711 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

972 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 145:

	_		~			
CCGGAGAAAA	TGATGAAAAG	TTCAAAACTA	TTTGCCCTTG	CGGGCGTGAC	ATTATTGGCG	60
GCGACTACTT	TAGCTGCATG	CTCTGGATCA	GGTTCAAGCA	CTAAAGGTGA	GAAGACATTC	120
TCATACATTT	ATGAGACAGA	CCCTGATAAC	CTCAACTATT	TGACAACTGC	TAAGGCTGCG	180
ACACAAATAT	TACCAGTAAC	GTGGTTGATG	GTTTGCTAGA	AAATGATCGC	TACGGGAACT	240
TTGTGCCGTC	TATGGCTGAG	GATTGGTCTG	TATCCAAGGA	TGGATTGACT	ТАСАСТТАТА	300
CTATCCGTAA	GGATGCAAAA	TGGTATACTT	CTGAAGGTGA	AGAATACGCG	GCAGTCAAAG	360
CTCAAGACTT	TGTAACAGGA	TTAAAATATG	CTGCTGATAA	AAAATCAGAT	GCTCTTTACC	420
TTGTTCAAGA	ATCAATCAAA	GGGTTGGATG	CCTATGTAAA	AGGGGAAATC	AAAGATTTCT	480
CACAAGTAGG	AATTAAGGCT	CTGGATGAAC	AGACAGTTCA	GTACACTTTG	AACAAACCAG	540
AAAGCTTCTG	GAATTCTAAG	ACAACCATGG	GTGTGCTTGC	GCCAGTTAAT	GAAGAGTTTT	600
TGAATTCAAA	AGGAGATGAT	TTTGCCAAAG	CTACGGATCC	AAGTAGTCTC	TTGTATAACG	660
GTCCTTATTT	GTTGAAATCC	ATTGTGACCA	AATCCTCTGT	TGAATTTGCG	AAAAATCCGA	720
ACTACTGGGA	TAAGGACAAT	GTGCATGTTG	ACAAAGTTAA	ATTGTCATTC	TGGGATGGTC	780
AAGATACCAG	CAAACCTGCA	GAAAACTTTA	AAGATGGTAG	CCTTACAGCA	GCTCGTCTCT	840
ATCCAACAAG	TGCAAGTTTC	GCAGAACTTG	AGAAGAGTAT	GAAGGACAAT	ATTGTCTATA	900
CTCAACAAGA	CTCTATTACG	TATCTAGTTG	GTACAAATAT	TGACCGTCAG	TCCTATAAAT	960
ACACATCTAA	GACCAGCGAC	GAACAAAAGG	CATCGACTAA	AAAGGCTCTC	TTAAACAAGG	1020
ATTTCCGTCA	GGCTATTGCC	TTTGGATTTG	ACCGTACAGC	CTATGCCTCT	CAGTTGAATG	1080
GACAAACTGG	AGCAAGTAAA	ATCTTGCGTA	ATCTCTTTGT	GCCACCAACA	TTTGTTCAAG	1140
CAGATGGTAA	AAACTTTGGC	GATATGGTCA	AAGAGAAATT	GGTCACTTAT	GGGGATGAAT	1200
GGAAGGATGT	TAATCTTGCA	GATTCTCAGG	ATGGTCTTTA	CAATCCAGAA	AAAGCCAAGG	1260
CTGAATTTGC	TAAAGCTAAA	TCAGCCTTAC	AAGCAGAAGG	AGTCCAATTC	CCAATTCATT	1320
TGGATATGCC	AGTTGACCAA	ACAGCAACTA	CAAAAGTTCA	GCGCGTCCAA	TCTATGAAAC	1380
AATCCTTGGA	AGCAACTTTA	GGAGCTGATA	ATGTCATTAT	TGATATTCAA	CAACTACAAA	1440
AAGACGAAGT	AAACAATATT	ACATATTTTG	CTGAAAATGC	TGCTGGCGAA	GACTGGGATT	1500
TATCAGATAA	TGTCGGTTGG	GGTCCAGACT	TTGCCGATCC	ATCAACCTAC	СТТСАТАТТА	1560
TCAAACCTTC	TGTAGGAGAA	AGTACTAAAA	CATATTTAGG	GTTTGACTCA	GGGGAAGATA	1620
ATGTAGCTGC	TAAAAAAGTA	GGTCTATATG	ACTACGAAAA	ATTGGTTACT	GAGGCTGGTG	1680
ATGAGACTAC	AGATGTTGCT	AAACGCTATG	ATAAATACGC	TGCAGCCCAA	GCTTGGTTGA	1740

CAGATAGTGC	TTTGATTATT	CCAACTACAT	CTCGTACAGG	GCGTCCAATC	TTGTCTAAGA	1800
TGGTACCATT	TACAATACCA	TTTGCATTGT	CAGGAAATAA	AGGTACAAGT	GAACCAGTCT	1860
TGTATAAATA	CTTGGAACTT	CAAGACAAGG	CAGTCACTGT	AGATGAATAC	CAAAAAGCTC	1920
AGGAAAAATG	GATGAAAGAA	AAAGAAGAGT	СТААТААААА	GGCTCAAGAA	GATCTCGCAA	1980
AACATGTGAA	ATAACTGTTG	СААААТАТАА	GAAAGGATTT	AGTATTTCCC	TTGAATGCTG	2040
AATCCTTTTT	TACATTTGTA	AAGAAAGATT	CTAAAATGTA	CGGACCCCCA	AAAGTTGGAG	2100
CCTCTTTTTG	TCAGAATAGA	GAAAATTTTT	GTTAATTTTA	CTTGTTTCCT	ATTGCTTTCT	2160
CAGCTATTAT	TTGTTATATT	AAAAGTATAA	TTATTTTTTA	TTTATCAGAG	TTAAGCATTG	2220
CACTTTCAGA	GGAAGGAGTA	ТТТТТТАААА	AGAAAATGTA	AACGTTTGCT	CAAAAATGAA	2280
AGGATTTAGA	AGTTTATGAA	TAAAGGATTA	TTTGAAAAAC	GTTGTAAATA	TAGTATTCGG	2340
AAATTTTCAT	TAGGTGTTGC	TTCTGTTATG	ATTGGAGCTG	CATTCTTTGG	GACAAGTCCG	2400
GTTCTTGCAG	ATAGCGTGCA	GTCTGGTTCC	ACGGCGAACT	TACCAGCTGA	TTTAGCTACT	2460
GCTCTTGCAA	CAGCAAAAGA	GAATGATGGG	CGTGATTTTG	AAGCGCCTAA	GGTGGGAGAA	2520
GACCAAGGTT	CTCCAGAAGT	TACAGATGGA	CCTAAGACAG	AAGAAGAACT	ATTAGCACTT	2580
GAAAAAGAAA	AACCGGCTGA	AGAAAAACCA	AAAGAGGATA	AACCTGCAGC	TGCTAAACCT	2640
GAAACACCTA	AGACGGTAAC	CCCTGAATGG	CAAACGGTAG	CGAATAAAGA	GCAACAGGGA	2700
ACAGTCACTA	TCCGAGAAGA	AAAAGGTGTC	CGCTACAACC	AACTATCCTC	AACTGCTCAA	2760
AATGATAACG	CAGGCAAACC	AGCCCTGTTT	GAAAAGAAGG	GCTTGACCGT	TGATGCCAAT	2820
GGAAATGCAA	CTGTTGATTT	AACCTTCAAA	GATGATTCTG	AAAAGGGCAA	ATCACGCTTT	2880
GGTGTCTTTT	TGAAATTTAA	AGATACCAAG	AATAATGTTT	TTGTCGGTTA	TGACAAGGAT	2940
GGCTGGTTCT	GGGAGTATAA	ATCTCCAACA	ACTAGCACTT	GGTATAGAGG	TAGTCGTGTT	3000
GCTGCTCCTG	AAACAGGATC	AACAAACCGT	CTCTCTATCA	CTCTCAAGTC	AGACGGTCAG	3060
CTAAATGCCA	GCAATAATGA	TGTCAATCTC	TTTGACACAG	TGACTCTACC	AGCTGCGGTC	3120
AATGACCATC	TTAAAAATGA	GAAGAAGATT	CTTCTCAAGG	CGGGCTCTTA	TGACGATGAG	3180
CGAACAGTTG	TTAGCGTTAA	AACGGATAAC	CAAGAGGGGG	TAAAAACAGA	GGATACCCCT	3240
GCTGAAAAAG	AAACAGGTCC	TGAAGTTGAT	GATAGCAAGG	TGACTTATGA	CACGATTCAG	3300
TCTAAGGTCC	TCAAAGCAGT	GATTGACCAA	GCCTTCCCTC	GTGTCAAGGA	ATACAGCTTG	3360
AACGGGCATA	CTTTGCCAGG	ACAGGTGCAA	CAGTTCAACC	AAGTCTTTAT	CAATAACCAC	3420
CGAATCACCC	CTGAAGTCAC	TTATAAGAAA	ATCAATGAGA	CAACAGCAGA	GTACTTGATG	3480

974 AAGCTTCGCG ATGATGCTCA CTTAATCAAT GCGGAAATGA CAGTACGCTT GCAAGTTGTA 3540 GACAATCAAT TGCACTTTGA TGTGACTAAG ATTGTCAACC ACAATCAAGT CACTCCAGGT 3600 CAAAAGATTG ATGACGAAAG CAAACTACTT TCTTCTATTA GTTTCCTCGG CAATGCTTTA 3660 GTCTCTGTTT CTAGTAATCA AACTGGTGCT AAGTTTGATG GGGCAACCAT GTCAAACAAT 3720 ACGCATGTCA GCGGAGATGA TCATATCGAT GTAACCAATC CAATGAAGGA TTTGGCTAAG 3780 GGTTACATGT ATGGATTTGT TTCTACAGAT AAGCTTGCTG CTGGTGTTTG GAGTAACTCT 3840 CAAAACAGCT ATGGTGGTGG TTCGAATGAC TGGACTCGTT TGACAGCTTA TAAAGAAACA 3900 GTCGGAAATG CCAACTATGT AGGAATCCAC AGCTCTGAAT GGCAATGGGA AAAAGCTTAT 3960 AAGGGCATTG TTTTCCCAGA ATACACGAAG GAACTTCCAA GTGCTAAGGT TGTTATCACT 4020 GAAGATGCCA ATGCAGACAA GAACGTTGAT TGGCAAGATG GTGCCATTGC TTATCGTAGC 4080 ATTATGAACA ATCCTCAAGG TTGGGAAAAA GTTAAGGATA TCACAGCTTA CCGTATCGCG 4140 ATGAACTTTG GTTCTCAAGC ACAAAACCCA TTCCTTATGA CCTTGGATGG TATCAAGAAA 4200 ATCAATCTCC ATACAGATGG TCTTGGGCAA GGTGTTCTCC TTAAAGGATA TGGTAGCGAA 4260 GGCCATGACT CTGGTCACTT GAACTATGCT GATATTGGTA AGCGTATCGG TGGTGTCGAA 4320 GACTTCAAGA CCCTAATTGA GAAGGCTAAG AAATATGGAG CTCATCTAGG TATCCACGTT 4380 AACGCTTCAG AAACTTATCC TGAGTCTAAA TACTTCAATG AAAAAATTCT CCGTAAGAAT 4440 CCAGATGGAA GCTATAGCTA TGGTTGGAAC TGGCTAGATC AAGGTATCAA CATTGATGCT 4500 GCCTATGACC TAGCTCATGG TCGTTTGGCA CGTTGGGAAG ATTTGAAGAA AAAACTTGGT 4560 GACGGTCTCG ACTTTATCTA TGTGGACGTT TGGGGTAATG GTCAATCAGG TGATAACGGT 4620 GCCTGGGCTA CCCACGTTCT TGCTAAAGAA ATTAACAAAC AAGGCTGGCG CTTTGCGATC 4680 GAGTGGGCC ATGGTGGTGA GTACGACTCT ACCTTCCATC ACTGGGCAGC TGACTTGACC 4740 TACGGTGGCT ACACCAATAA AGGTATCAAC AGTGCCATCA CCCGCTTTAT CCGTAACCAC 4800 CAAAAAGATG CTTGGGTAGG GGACTACAGA AGTTATGGTG GTGCAGCCAA CTATCCACTG 4860 CTAGGTGGCT ACAGCATGAA AGACTTTGAA GGCTGGCAGG GAAGAAGTGA CTACAATGGC 4920 TATGTAACCA ACTTATTTGC CCATGACGTC ATGACTAAGT ACTTCCAACA CTTCACTGTA 4980 AGTAAATGGG AAAATGGTAC ACCGGTGACT ATGACCGATA ACGGTAGCAC CTATAAATGG 5040 ACTCCAGAAA TGCGAGTGGA ATTGGTAGAT GCTGACAATA ATAAAGTAGT TGTAACTCGT 5100 AAGTCAAATG ATGTCAATAG TCCACAATAT CGCGAACGTA CAGTAACGCT CAACGGACGT 5160 GTCATCCAAG ATGGTTCAGC TTACTTGACT CCTTGGAACT GGGATGCAAA TGGTAAGAAA 5220 CTTTCTACTG ATAAGGAAAA GATGTACTAC TTCAATACGC AGGCCGGTGC AACAACTTGG 5280

ACCCTTCCAA	GCGATTGGGC	AAAGAGCAAG	GTTTACCTTT	ACAAGCTAAC	TGACCAAGGT	5340
AAGACAGAAG	AGCAAGAACT	AACTGTAAAA	GATGGTAAAA	TTACCCTAGA	TCTTCTAGCA	5400
AATCAACCAT	ACGTTCTCTA	TCGTTCGAAA	CAAACTAATC	CTGAAATGTC	ATGGAGTGAA	5460
GGCATGCACA	TCTATGACCA	AGGATTTAAT	AGCGGTACCT	TGAAACATTG	GACCATTTCA	5520
GGCGATGCTT	CTAAGGCAGA	AATTGTCAAG	TCTCAAGGGG	CAAACGATAT	GCTTCGTATT	5580
CAAGGAAACA	AAGAAAAAGT	TAGTCTCACT	CAGAAATTAA	CTGGCTTGAA	ACCAAATACC	5640
AAGTATGCCG	TTTATGTTGG	TGTAGATAAC	CGTAGTAATG	CCAAGGCAAG	TATCACTGTG	5700
AATACTGGTG	AAAAAGAAGT	GACTACTTAT	ACCAATAAGT	CTCTCGCGCT	CAACTATGTT	5760
AAGGCCTACG	CCCACAATAC	ACGTCGTGAC	AATGCTACAG	TTGACGATAC	AAGTTACTTC	5820
CAAAACATGT	ACGCCTTCTT	TACAACTGGA	GCGGACGTCT	CAAATGTTAC	TCTGACATTG	5880
AGTCGTGAAG	CTGGTGATCA	AGCAACTTAC	TTTGATGAAA	TTCGTACCTT	TGAAAACAAT	5940
TCAAGCATGT	ACGGAGACAA	GCATGATACA	GGTAAAGGCA	CCTTCAAGCA	AGACTTTGAA	6000
AATGTTGCTC	AGGGTATCTT	CCCATTTGTA	GTGGGTGGTG	TCGAAGGTGT	TGAAGATAAC	6060
CGCACTCACT	TGTCTGAAAA	ACACAATCCA	TATACACAAC	GTGGTTGGAA	TGGTAAGAAA	6120
GTCGATGATG	TTATCGAAGG	AAATTGGTCA	CTCAAGACAA	ATGGACTAGT	GAGCCGTCGT	6180
AACTTGGTTT	ACCAAACCAT	CCCACAAAAC	TTCCGTTTTG	AAGCAGGTAA	GACCTACCGT	6240
GTAACCTTTG	AATACGAAGC	AGGATCAGAC	AATACCTATG	CTTTTGTAGT	CGGTAAGGGA	6300
GAATTCCAGT	CAGGTCGTCG	TGGTACTCAA	GCAAGCAACT	TGGAAATGCA	TGAATTGCCA	6360
AATACTTGGA	CAGATTCTAA	GAAAGCCAAG	AAGGCAACCT	TCCTTGTGAC	AGGTGCAGAA	6420
ACAGGCGATA	CTTGGGTAGG	TATCTACTCA	ACTGGAAATG	CAAGTAATAC	TCGTGGTGAT	6480
TCTGGTGGAA	ATGCCAACTT	CCGTGGTTAT	AACGACTTCA	TGATGGATAA	TCTTCAAATC	6540
GAAGAAATTA	CCCTAACAGG	TAAGATGTTG	ACAGAAAATG	CTCTGAAGAA	CTACTTGCCA	6600
ACGGTTGCCA	TGACTAACTA	CACCAAAGAG	TCTATGGATG	CTTTGAAAGA	GGCGGTCTTT	6660
AACCTCAGTC	AGGCCGATGA	TGATATCAGT	GTGGAAGAAG	CGCGTGCAGA	GATTGCCAAG	6720
ATTGAAGCTT	TGAAGAATGC	TTTGGTTCAG	AAGAAGACGG	CTTTGGTAGC	AGATGACTTT	6780
GCAAGTCTTA	CAGCTCCTGC	TCAGGCTCAA	GAAGGTCTTG	CAAATGCCTT	TGATGGCAAT	6840
GTGTCTAGTC	TATGGCATAC	ATCTTGGAAT	GGTGGAGATG	TAGGCAAGCC	TGCAACTATG	6900
GTCTTGAAAG	AACCAACTGA	AATCACAGGA	CTTCGCTATG	TTCCGCGTGG	ATCAGGTTCA	6960
AATGGTAACT	TGCGAGATGT	GAAACTTGTT	GTGACAGATG	AGTCTGGCAA	GGAGCATACC	7020

976 TTTACTGCAA CTGATTGGCC AAATAACAAC AAACCAAAAG ATATTGACTT TGGTAAGACA 7080 ATCAAGGCTA AGAAAATTGT CCTTACTGGT ACCAAGACAT ACGGAGATGG TGGAGATAAA 7140 TACCAATCTG CAGCGGAACT TATCTTTACT CGTCCACAGG TAGCAGAAAC ACCTCTTGAC 7200 TTGTCAGGCT ATGAAGCAGC TTTGGTTAAG GCTCAGAAAT TAACAGACAA AGACAATCAA 7260 GAGGAAGTAG CTAGCGTTCA GGCAAGCATG AAATATGCGA CGGATAACCA TCTCTTGACG 7320 GAAAGAATGG TGGAATACTT TGCAGATTAT CTCAACCAAT TAAAAGATTC TGCTACGAAA 7380 CCAGATGCTC CAACTGTAGA GAAACCTGAG TTTAAACTTA GATCTTTAGC TTCCGAGCAA 7440 GGTAAGACGC CAGATTATAA GCAAGAAATA GCTAGACCAG AAACACCTGA ACAAATCTTG 7500 CCAGCAACAG GTGAGAGTCA ATCTGACACA GCCCTCATCC TAGCAAGTGT TAGTCTAGCC 7560 CTATCTGCTC TCTTTGTAGT AAAAACGAAG AAAGACTAGT ATTTAGTAAA ACCTCTTAAC 7620 AAGATTACGG AAGCAGTCTC TATCTTTTCC AATGAGGTTT ATAGTACAGA AAAAGCCTGA 7680 GAAGATGTCT TCTCAGGCTT TTGTTAAGCA CATAAATACA ATAGTGCTAT GACAAAATCA 7740 CCCAGAAAAA TCTGGGTGAT AAATGTTATG GTTGTGCTGG TTGAGGATTC TGATTTTGTT 7800 GATCAGGGGT TGTATTGAT TGTTGCGTAT TATTGTTAGG ATTGGTAGTC GTACTATTAT 7860 TTGTGCTTGG AGTGGTTGAG CTAGACTGTG AAGTTGAACT ATCTGATGAT GAGCTTGAAC 7920 TTTCAGTTGA TGGGGGTTGT TGTGGAGCAG GTGAGTTCCA CGTAGAACGA GCACCATTTT 7980 TAAATACGAA TTCTCCATTT CTGTAGAGCC CCTCTGGTAT ATTCCAATCT TCTGGATTGC 8040 TTCCTTCAGA CAGGTAGGTC ATCATAGAGC GGTAAACTTT GGCAGCGACC GTAAGGCCAT 8100 TGCCTACAAG TGGTGTCAGA CGGTTAGAAT AGCCTGTCCA TACAGCCATT GAATATTTAC 8160 GCGTATAGCC AGCAAATAGT TCATCAGGTG CTACAAATTG AGAGGTCTTG ATGTGGTTTT 8220 CAATTTCCTC GTCTGTATAG TTAGAGGTTC CTGTTTTACC AGCCTGAGGG AGCCAAGCAA 8280 GATAGGCATT TCGTCCAGTT CCATAAGTCA AGACTGTTTT CATCATGTCG GTCATCATAT 8340 AGGCTGTCGT TTCCTTCATG GCACGAGTTC CGACATTAGA GAACTCTTTT TCACTCCCAT 8400 CACTAAAGAC GACTTTATGG ATATACATTG GTTTATAGTA AGTTCCACCA TTTGCAAAGG 8460 CAGCGTAAGC AGCAGCCATC TTTTCACTAC TTGCTCCATA TTTTTTGTCT GATTCGGTTG 8520 TGTTACTTGA AATGGCATTT GAGTAGTGAA TACTTGGGTA GTCGATTCCT AGACCATTTA 8580 GGAAAGTCTT GGCGCGGTTG AGTCCGACCT TGTTTAGAGT TTCCACGGCT GGGACGTTTC 8640 GCGATTGTTG CAGGGCGTAT TGCAAGGTGA TGTTGCCAAA GTAGCCCCTA TCCCAGTTAT 8700 AAACAGGAGT ATTTGTCCCA GGGTAGTTAT AGGGCTCATC GTGAACGATA GTAGCAGTTG 8760 AATCGTAGAC ACCGTACTCC AAGGCAGGAG CATAGTCTGT GATCGGTTTC ATAGTTGATC 8820

CCCAGTCGCG	GTTTGTTTCT	ACTGCTTGGT	TAATTCCGAA	GGAAACATTA	CTTGACTGAT	8880
GGCGTGCTCC	TAGCTGGGCA	ATGACTTTAC	CGTTAGAAAC	ATCAACAATG	GTAGAAGCGA	8940
CTTGCAATTC	ATCGTCTGGA	TAGGCAACGT	ATTCGTCTGT	ATTGTAAATA	TCCCACAGAT	9000
GTTTTTGAGC	TTCTTGGTCT	ACATTTGTGT	AGACATCCAT	CCCAGTTGTG	AGTAGGTTAT	9060
AGCCTGTTTC	TTCTTCAACT	TGATTGATGA	CTTCCTTGAG	GTAATTATCC	ATGTAAGCAG	9120
GGTAATTACT	TGCTGATTTG	AGACTTTGTA	GTCCATCAGT	AATTGGTGTA	TTGACTGCTT	9180
TCTCATACTG	TTCAGCAGAG	ATGTAGCCTT	GATTTTTCAT	TTCAGATAAG	ACCAAGTTTC	9240
GGCGGTCTTG	GGCTGCTTCT	GGATGTGAAT	AGGGGTCATA	TTGGTTTGGT	GCCTGAGGCA	9300
TTCCAGCCAG	CAAGGCTAAC	TGAGGTAAAC	TTAAATTATT	GAGGTCTTTA	CCATAGTAGT	9360
TTTGAGCTGC	TGTCTGCATT	CCATAGTTCC	CATTAGACAT	GTAGACCTTA	TTTATATAGT	9420
AGGTCAAGAT	TTCTTGCTTG	GTTGCTTTTT	GTTCTAACTG	AATCGCTAAC	CAAGCTTCCT	9480
GAGCCTTACG	AGAAATAGTC	TGGTCGGAAG	TCGAAGTTGA	AAAGTAAGTC	AACTTAATCA	9540
ACTGTTGGGT	GAGAGTTGAT	CCACCTTGGA	GGGAATTGCT	TTGCAGATTG	CGCAAGAAAG	9600
CTCCCAGGAT	ACGGATGGTA	TCAATCCCCC	TGTGGTCGAA	GAAGCGATGG	TCTTCGATAG	9660
AAACGATTGC	CTTAACCAAA	TCTGTGGGAA	TATCATTAGC	TTGGGCATTG	ACGCGGCGTT	9720
CAGAACCCAA	GTCAGCAATG	AGTTGATTTT	TATTGTCGTA	GATTTTACTA	GAAGTTGTTG	9780
CAACTAGTTT	ACTCTCGGAT	AGGCTAGGAG	CCTTGCTAAC	GTAGTAGAAA	AAAACTCCTC	9840
CGCCTAAGAC	AATGGCTGCG	ATAACCAAGC	TTAAGAAGCT	AATGCTCAGA	TACTTGATTA	9900
GGCGCAGAAT	CGTTGGTTTG	TTCATCTTGT	TTTACCACCT	AATAAATGTT	CTTTGATAAC	9960
ATTGAGATAA	GGAATTTGAG	GGAAGGCACC	AGCCTTGATT	TCATATCCAT	ATTCTCGAAT	10020
ATATTCAAGT	GGCATTGATT	TTTGTCCCTT	ATCTTGATGA	TAGAAGCGAA	TCAAATCGAA	10080
TGCCGGCAAT	AAGTAGGTTT	CTTGCTGAGA	AGAAAAGTGA	AGAAGGACAA	AGCAGATTCC	10140
TTGTTGGGCA	AGGACTTGTT	CCATATGCTG	AATCTGATGT	GGATGAAAAT	TTTTCATCGG	10200
AATCGCACGT	TTTTGTTTTG	TTTCCTTGAC	TTCAAAGTCG	ATGTAATATC	CATTATAAAC	10260
GCCAGAATAG	TCCGTCGTTG	AAGCTTGTCG	AAAATAGGCT	TCAACAATCT	TGGCACGACT	10320
TCGTTGTGGA	TAGTCCACTT	GTACGATTTG	AATAGGAGTT	GGTTTCTTAT	GTATAACAGC	10380
CAAGCCCTGA	GACAAATAGT	AGTCGTTGGT	AGCATTGATC	ATCTTTTCAA	AGGGTACCGA	10440
GCTCGAATTC	GTAATCATGT	CATAGCTGTT	TCCTGTGTGA	AATTGTTATC	CGCTCACAAT	10500
TCCACACAAC	ATACGAGCCG	GAAGCATAAA	GTGTAAAGCC	TGGGGTGCCT	AATGAGTGAG	10560

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CTAACTCACA	TTAATTGCGT	TGCGCTCACT	978 GCCCGCTTTC	CAGTCGGGAA	ACCTGTCGTG	10620
CCAGCTGCAT	TAATGAATCG	GCCAACGCGC	GGGGAGAGGC	GGTTTGCGTA	TTGGGCGCTC	10680
TTCCGCTTCC	TCGCTCACTG	ACTCGCTGCG	С			10711

- (2) INFORMATION FOR SEQ ID NO: 146:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 11887 base pairs
      (B) TYPE: nucleic acid
      (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 146:

TACATTCATT	CCATCGGCTA	CTCCATAATA	CTTAGATAAA	ACCATAGCTG	AAGTCGAATA	60
CGGATACTGT	AAAGTATTAT	CAATTTTAAT	CAAATCATCA	TTACCGATAA	TACTTCTGAT	120
TGCTTTTGGT	AGTATGAACC	ATACGTTGGT	GAAATCTCAG	ATAATGAAGA	ATCATTAGAC	180
TCTGGACCTT	TTTCTAGTGT	CTCACTTACC	TCATATTCTT	CACCCTTACT	AGAAATAACA	240
CTCAAAGCAG	ATACTGTCGA	TAACTGGCTA	GCCAATAAAG	TACTCGCAAT	AATTGAAATA	300
CCCAATTTTT	TATAAACAGT	TTTCTTCATT	ATTGTATCCT	CCTAATGTAA	TTATAGCGTA	360
CTATTCTAAA	TTTCTTAATC	TACTATAGAA	TCAAGAAATC	TACCACCTTC	TTTAAATACC	420
CTCCATTATC	ACATAAACAG	GTAAACTTTT	CAATTAATGA	CTGCGCTTTT	CAATCACGCT	480
AGAGGTACTT	GCTTGCTTCT	TTGATACTAA	GTTCAGCCAT	TCTTTCCTTG	TTTTTCTCAA	540
TAAAGCATGT	TACCCAAGTG	GGATTCGTTT	TGGAGTAGTC	TCGCAGAGTC	CAGCCAATGG	600
CTTTATTGAT	AAAAAATTCT	GTTTGGTTCA	AGTTATGAAG	GAGAATCTTT	TCCATTAATT	660
GAGTATTGGT	CTTCTCTTTT	CTTAACAACT	GGTGGTCAAT	AGCGACACGT	CTCAGCCAGA	720
TATTATCTGA	TAGGCTCCAT	TTTATACTCA	ATGAAAATCA	AAGAGCAAAC	TAGGAAGCTA	780
GCCGCAGTTG	CTCAAAACAC	TGTTTTGAGG	TTGCAGATAG	AGCTGACGTG	GTTTGAAGAG	840
ATTTTCGAAG	AGTATTAAGA	TTATTTCTTC	TAGTTCAGGG	TGTTCATACA	CCAAACTCCC	900
TACTACTCGA	TCTAGGATAT	CTACCGTGTC	CCACAAGGAT	TTTGTCACGA	CTAACTGCTC	960
TAGCTTAGGC	AAATCGGTTT	CCTTTAGATA	AGACTGCATT	GCTTTCAAAT	AGTTAGCAGC	1020
CACATATTGG	TATTTTCTAG	GATCCTTTTC	CCAGCAAGTG	TCTGCAAAAT	CCCAATCGAT	1080
AATCTTTGTT	TTTTTCGCTT	CTGGAAAATA	TTTTATAGAG	TTTATTTCTT	TCAGGCACCG	1140
CAATACCTAG	AAAAGAAAAT	TGATGGCGCA	TATAGGCTTC	CATGGACCTT	GCTTTTTTAG	1200
AGTCTTTTGC	TGCTTCTAGC	TCCTCAAGTA	AATCTGCTAA	ACTCATCTAA	AACTCCTCTT	1260

GCCCCACCAA	ATGGTGCTGA	AAGGCATAGA	CAGCCGCCTG	GGTACGATCG	CTGACTTCAA	1320
GTTTGGCAAG	AATATTGGAC	ACGTGGGTCT	TGACCGTCTT	GAGAGAGATA	AAGAGGTCAT	1380
CTGCGATGCG	CTGATTTTCG	TAGCCCTTGG	CGATGAGTTG	GAGAACATCT	CGCTCACGCG	1440
CAGTCAATTC	TTCATGAAGT	TCCATATGAT	TGCGGTGGTA	TTCAACCTTC	TTGCTAACCT	1500
CTTGCTCAAT	GGCCAGCTCG	CCAGCAGCTA	CCTTACTGAC	GGCATGAAGC	AATTCATCTG	1560
CACTAGAAGT	CTTGAGCATA	TAGCCTTTGG	CACCAGCATC	TAAGACTGGC	ATGATTTTTT	1620
CATTGTCCAA	ATAAGAGGTC	ACAATCAAAA	TCTTGGCTTC	AGGCCATTCT	TTAAGGATTG	1680
CTAAGGTCGC	GTCAATCCCA	TTCATCTCAG	GCATGACAAT	ATCCATGACA	ATGACATCTG	1740
GACGCAGTTC	CAAGGCCAAG	TCAATCCCTT	GAGACCCGTT	GGACGCCTCA	CCCACAACTT	1800
CTACATCGTC	TTGGAGGTCA	AAGTAGCTTT	TCAAGCCCAA	TCGGACCATT	TCATGGTCAT	1860
CTACTAGTAA	AATTTTCATC	TTTACTCCTT	TATCATTCCT	TATCTAACAG	GGGAATACGG	1920
ATATCAACCG	CCAGCCCTTG	CTTGGGAGCT	GTCAAGAGTT	GAACTGTTCC	AGCCATATCT	1980
TCAACCCGCT	CCTTGATATT	TCGCAGTCCA	TAACTCAAGT	CGTCTAAGCT	CCCTAACTGG	2040
AAACCAATCC	CATTGTCCAC	CACCTTCAGT	TGCAATTCAA	CATCTGTCTG	ATAGAGGTAG	2100
ACATCTAGGC	AAGATGCCTG	GGCATGGCGG	AGGGTATTGC	TAATCAACTC	TTGCAGGATA	2160
CGGAAGATAT	GCTCCTCGAT	TTTCTTAGGC	AATTTCGTCA	TATTCTGCTT	GAGACTAACC	2220
CTAAGATCAC	TCTTGTCCTC	AAGCTCTTTT	AAAAGAATTT	GAATCCCTTC	TATCAAGCTC	2280
TTCTGCTCCA	GTTCAACTGG	TCGCAAATGC	AAGAGCAAAA	CCCGCAAATC	CTTCTGGGCT	2340
GTTTCTAAAA	TAGCTGTGAC	ACTCTGCAAC	TGGGTCTGCA	TCTTTTCTCT	ATCCAATTTC	2400
AAAGCCTGCT	GACTGATACC	CGATAAAATC	ATGTGGGCCG	CAAACAACTC	CTGACTGACT	2460
GTATCGTGCA	AATCCCGAGC	AATTCGCTTC	CGTTCCTTCT	CGATGATTTC	CTCTTCCTGA	2520
GCAAGGCTCT	GATTTTCAGC	TTTTTGAAGA	GCCTCTGTCA	AAAGGTTAAG	TTTACCTGAT	2580
AAGGACTTGA	AACTGGCATC	CAAATCTGGA	TCTGCAACCT	GAACCACTTC	TTGCCCTGCT	2640
AATAAACGCT	TGAGATTAGC	CTGCATTTTT	CTTAGAGAAA	GCTCTTCGAT	CCCTCGCCAA	2700
AACAGGGCTA	AGAGACAGGT	CATGGACATG	CTGAAAACCA	АСААТАААА	GACAAATTTT	2760
TCTGTTTTTT	CGACATCGTG	CAAAAAGATA	GACCAGTCAA	AATCAAGTAT	TTCCAGCAAG	2820
CTGTGGGAGA	AAAAAAGAC	AAATAGGAAG	GAGGTGAGAG	CAATAATGAC	ATAGGCTTGT	2880
TTTTTCATCC	TCTAACCACC	TCCACATCAC	CAATCATAGT	GGTCAAGAAA	ATCTTGACAC	2940
TCTTGTTACT	CTTGAGATAG	TCTTTTGTTT	CTTGATGATA	GTGTTCATTG	CGGAGGGCTC	3000

980

GCTTGGGCTG GTTGAAAAAA ATCAAATCCC CATAGAGACA GTTAACGCTG AGACTGACTT 3060 CCACATCTAC AGGTACGATG ATTTTGGTCG TTCCTACCAT CTTTCTGAGG ATAATGACAT 3120 TGTCATGATT GGTTAAGATG ACCCTCTCCA GATGAATAGT GTCCTTGCCC ATGAAGCGAA 3180 AGAGATTGAT ATCATCGAAT TGGCAAGTCT GGTAGCTTGA AAAATGATGA AGATTTCCAA 3240 ACCAACGATT TTTCTCCTTC TTAACCGTCA CGACCTCTTC AAAAACCAAA TTGGTCTGCT 3300 CTTTTTCCTG GTTCATCATC GGGTAAAGAA GAAAGAGGCT ATAGATAACC GCAACAAAAA 3360 TAGCTAGAAT CACAAAAGGA TTGAGCATAA CGATGAAAAA GAAGAGAATG GTTGCCGCTA 3420 CTAAAAGAAG ATTATTTCCC TCTTTACCAG TGTAGTAGCG AATCAAAAGC AAAAAGAGGA 3480 ATAGTATCAG CAGAAAACGC GAAAAATGCT CTGATACCAT CAAAATCAGA GCTCCTGTCA 3540 GAAGACAGGC TTCGATAAAT AAAAAGATTT TAAATTTTCT CATAGGTTCA TCCTCTCCCT 3600 TCTATTTAT CACAATTCAA AAAAGTCACC TCAGTCTGAG GATGGAAAAA AGGCGCTGGT 3660 TACGCCTTTT TCATCTGATC CTTTGCTTCT TTTAATTTTC CATAAAGAAG ATAGTCTACT 3720 TTTTGTAGAT CTGCTATGGT GGCACAGTTA AGGGAACACA TAATCAAGCG TAGATCTGCT 3780 TTCCAGCCTT GGACAATGCC AATCACTTCT TCAACTGTGT AGGTTTCAAC CAATTCCAGA 3840 ACGGTTCGTG ACAATCCCAC AGCCTTAGCA CCAAAAACCA AGCACTTAAT CATATCCAGC 3900 GGATTCCGAA CCCCTCCACT AACCAAGAGT TCGACCTTAT CTTTCCATTC TTGGGCATTG 3960 AGAAGGGCCT GCATGGTAGA CTGACCCCAT TGATTGAGGT AATCACGCTG GCCACTACGA 4020 CGGTTTTCGA TATAGGCAAA GCTGGTGCCA CCACGACCCG ATAGGTCCAC TGTACGAACA 4080 CCGAATTCAT AGGCTCTTTC GATTGTCTTG GCATCCATTC CAAAGCCCAC TTCCTTGAGG 4140 ACAATAGGAA CGGGAATTTG CTTGCTATAA TCTGCTAGAT GCGATTGCCA GCTTCTAAAC 4200 TTCCTTTCTC CCTCGGGCAT GAGTAATTCC TGCATGACAT TGACATGCAC TTGCAATAGA 4260 ACAGGATTCA TCTCTTCTAC AGTCTGAAGT CCTAACTCGA CAGGCTTGTC CAATCCAATA 4320 TTGGTTCCAA GGAGGAGATT GGGATGACTA GACTTGACAG AAAAAGAATC ATCCGTTGGA 4380 TTTTTGAGGG CTGCGCTATA AGAACCCGTT ACAAATAAAA TACCACAGGA TTCCGCCACC 4440 TGAGCCAGCT TTTGATTGAT TTCTCTTCCC TTATTACTTC CACCAGTCAT GGCATTGATA 4500 TAAAAAGGAA AGTCCCACTT TCGACCAGCA AACTCTGTCG AAAGATCGAT TTCATCCAGA 4560 TTGTAAAGAG GCAAGGAAGA ATGAATCAGC TCCACCTCAT CAAAGCTATT ATAGGAACTT 4620 TTCTGCTCAA GGGCATAGAG GATATGCTCG TCCTTACGAT TTGTCGTCAT GTCCTATCCT 4680 TTCTTGATAT AAGAGCTCAA TCCCCAGATC GGCCCAACGA TTTTTTAAGG TTTTGGTTGA 4740 TTGCGCATCA AAACTCAGGG CGATGCCACA GTCACCACCA CCAGCACCAC TACTCTTGGC 4800

AACGGTCTGC	AAATCTTGAC	TGGCTTCTTT	CAACTGTCTA	AGCAAAGGCG	TGTAAATATC	4860
TGTACTCAAG	CCTTCTAAAA	GCTTGCTGGC	TACTTCTACT	TGATCGATAA	TCTTTTCTGA	4920
TTTCCCCTGT	TCCAAGGCTT	CTACCAGAGA	AGTCACCGTT	TCTTTTGAGG	AAGTTAAAAA	4980
ATTTTGATTG	ATATTTTGCT	TGATTTGCTG	GACCATGTGA	CTCGATACAG	CCACTTCCTT	5040
GGTCCATCCC	ACTAAGAAAT	CACATTCTAA	AGTTGGTTTC	ACTTGTGAAA	TTGAAAAGCC	5100
CCAATCACGC	TCCAGAACTG	TCGCCAAGTT	TTCTTCTTCT	AACCAAGCAG	CCACCTTCTG	5160
GCGATCAAAT	GACTGGTAGA	GAACCAAATC	CTCTGCCACA	ATACAGGCAA	GGTCGCCCAT	5220
GGAACCATTG	TCTCCTCGCT	TAAGCAAGAC	AGCGCTAGTC	AGCTTGAACA	AGAGCTCCTG	5280
ATCAACAGAA	ACATCATACA	GAGCCAGTAA	AGCCTTGACA	ACCAAGACAA	CGACGCTGCC	5340
ACTAGAACCT	AGACCAAACT	TTTTCCCTTC	TCGTTCCATT	TTGCCACAGA	TTTCTAGAGA	5400
AAAAGGTCTT	AAATTCTGAC	CACGAACAGC	GAGGAAGTCT	CCCATCAAAG	CAATCGTTTC	5460
TTGAATCAAG	CTATAGTCAG	GATTAGGCCT	TAAGTCCACT	GCGAAATCAA	ACATATCTGA	5520
ATAGATACGG	TAGCTGTCAG	AAAAAGCAAT	CTCAGCCCTC	ATATAGATGG	GAATATCCTT	5580
TATCAAAGCT	AACTGCCCTG	GCTCTAAAAT	AGCATATTCA	CCTGCCCAAT	AGAGTTTTCC	5640
GCAAGTTTTA	ACAGCAATCA	TCTTGACTCA	AATCCTTTGT	TTTTGACACA	ATCAAGCGAT	5700
AACGATGACC	GAAAATTTCT	GATAAATGCT	CCAAGTCTTT	CTCCTGACAG	AAGACCTTAA	5760
CATTGGGACC	AGCATCCATG	GTAAAGTAGC	AGGCCTCTCC	TTTCTCACGA	AGCTGGCGAA	5820
CAAAGGCCAT	AGCCTCATAA	GAGGCATCCG	TCAGATAAGA	AAAGGCTGGA	CTAGCAGTCT	5880
TTGTCGTAGC	ATGCATAGCC	AGGGCATTTT	TCTCCGTTAA	TTCTCCAATC	TTGGCAAAAT	5940
CATTTTCCTT	GAGATAAATC	AGCATATCCT	GATAGTCCTT	CTCAGACTGA	CGAACCCAGT	6000
CGTCGAAAGT	CGTCGAGGTT	TCCACACAAA	GTTTCATCCC	GTCACGGCTA	GAGATTGGTT	6060
TTTTCTTGTC	CTCTAGCACC	AACATAATCA	TAGCTAGTTT	CAAGTCTGTC	TCTACAGGGT	6120
AAATTTCTCC	ACTATCCTTA	TCCCAGGCTC	CTAGTGGTCC	ATAAAAACTC	CGAGAAGAAG	6180
AACCTGAGGC	AAATTTGGCT	TCCTGTGCCA	ACTGACTTCT	ATCCAATCCA	AGCTTGAAAT	6240
AAGCATTACA	AGCCTTGACC	AGGGCGGACA	AACCACTAGA	ACTTGAGGAC	AGACCCGCTG	6300
CCGTAGGCAT	ATTGTTTTGA	GTATCGATAC	GGACAAAGCC	CTCACCAGCT	GGACGATAAC	6360
GGTCAATAAT	CTTACTCATC	TTGGCATGCT	CGACCTCATT	TTGTAGCTGA	CCATTGATGT	6420
AAAATTCGTC	AGCTGTTACA	TTGGCTGGTA	AAGGCGACAA	GGTCGTCTCT	GTATACATAT	6480
TTTCCAAAGT	TAGAGAAATA	CTGCTAGTAG	CAGGCACCAT	CTCTTTTTCT	TTTTTCTTTC	6540

			982			
CCCAATATTT	GATAATAGCA	ATATTTGCGT	, , ,	TGTTACAGGC	TCTCTATCCA	6600
TGTCTGAACA	GCTCCTTTCT	CTTCTAATCT	TTCTGCTAGT	TCTTGTGCGT	GTGTCAAATT	6660
GGTTACCAAG	GCTATGATAC	AACCTCCTAG	CCCACCACCG	CTCATCTTGG	CACCCAGAGC	6720
ACCATGGCTA	AGAGTCGTTT	CAACCAAAAA	GTCTGCCTCA	GGGCTACTGA	CTCCAATTTC	6780
TTTTAAATGT	AAATGCGCTT	GACTGAGGAT	TTGTCCCAGT	CCTTCAGCAT	CTTTTTGTGA	6840
AATCGCAACT	TCTGCTTGCT	GGGTTAATTC	TCCCAAGGCA	TGCAAAAACG	GTAGGGCATC	6900
CTTGCCCTTA	TTTTGAACCA	CTTGGATGGC	TTCACGAGTA	TGACCATAAA	CACCCGTATC	6960
GGCAATCACC	AAATAGGCGG	ATAAATCCAT	CTCAAGTTCT	GTAAATCCTA	CGTTCTTGAT	7020
AAAGCGAATA	GGTTGGTCAC	TAAGACAGGT	CTTAGCATCC	AAACCACTAG	GATTCATATG	7080
GGCAATCATT	TCAGCTCGAT	TGACCAAGAT	TTCTAGTACA	TCATGAGGCA	GATCAGCCTG	7140
ATAGTAGTCA	AATACTGCAC	GAATGGCCGC	TATGCTGATA	GCCGCTGACG	AACCCATCCC	7200
CCGTTTCTCA	GGGATAGCCG	AGTCAATCTC	ACAACGAATG	CAGGCTTCTG	TGATATTCAA	7260
ATACTCCAGT	GAGGCATAAA	CCGCCATGGA	CAAGGTATCC	TCCTCATAAA	GGCGCCAAGG	7320
ACTCTCTGCA	GGAACTACCT	TACAGGTCAC	CTCCACCTCC	AAAAGAGGCA	GGGAAATGGC	7380
AGGATAACCG	TAAACGACCG	CATGTTCCCC	ТАТТААААТТ	ATCTTACTAT	GTGCCTGACC	7440
GACACCAACT	TTTTTTGTCA	TTTTTTCCTT	TTACTAGACG	AAAAAACGTC	TTATTTTCA	7500
TACAAGTATT	AATTCTTTCC	TATCTATTTT	ATTATATTTT	САСАААААА	GCGATTGTTT	7560
CCATTCACAA	TCGCTTCTTT	CATTATTGAA	CCCATTCGCC	ATTATAGTTG	ACAGAATAGC	7620
CATCTACGGT	CGTATTCACT	GCCAAGGCAC	CTGAGCGCTA	TAAGCGTAGT	ACCATCTGCC	7680
ATTGACCTGG	AACCAACCTG	TCGTCATAGA	ACGACGAAAG	AAACTCCATA	CCATTAAGTA	7740
AAGAGGAAAG	TCGTGAGGGA	GCATGCGCCA	TTGACAACCT	GTTTTAGTGA	CGTACAAAGT	7800
CTCATTAACA	AGTACTCGTT	TCGGCCATTT	ATAGGTGCGG	TGTTTGGAGA	AATAGGGTTC	7860
AATCTTCGCC	CATTCTTGAT	CGTTTAAATC	AGTATCATAT	GCTTTGCGTA	TCATAACTCT	7920
AGCTTAACAT	TTTTTTGTGA	ATACAGGTTC	TAAATAATCG	ACCACGAAAA	TTTCTTAAGT	7980
GGAAAACGCC	TTATGAAGTA	TGCTACGGGA	AAGTTATGCA	CTTAATTTGA	CAATTCAAGA	8040
TGTAAAAATA	TATACTATAG	TAGATTGAAA	CTAGAATAGT	ACACCTCTAC	ТТСТААААТА	8100
TTGTTAGAAA	TCGATTTGAC	TGTCCTGATC	GATTTATCCT	GTTATTATCT	CATTTTACTA	8160
TAATATTTGA	TAAGTTATCC	TAAAAGTATT	ATTATGTTGT	TGTGTTATAG	ATTGATTGAA	8220
ТСТААСТААА	GGATCCTATT	CAATTACTAG	AACTATCACA	TACTCAAGGT	CAGCTCACAG	8280
ATGAGCAACT	ATTTTGGTTA	CAATGTCTAC	TAAATTTAAG	тсааасааат	AATTTAGTCA	8340

AAATTAAAA	AATAGAGGAA	CATAAATATG	ATTACAAAAC	AGAATGTAAT	AGTGTTCTAC	8400
AATTTTTACT	AGATAAAACT	GTAAATTCTG	AAGGAAGGAT	CACTTCTTCA	ACAGAATTTG	8460
GAAATTTCGT	AAGTAATTTA	TCATTCCAAC	ACGGAATAGC	TGGACTACTG	TTTCCTCTAA	8520
ATAAATTGTA	CCCCCAGAA	CTGGATTCTA	AAATACTCTC	TATCATCAAG	AAGGCAGTGA	8580
CAATTAGAAC	GACACACACA	TATGAATATC	AATACTCACT	GCTATTTGGT	GATGCAGGCT	8640
ATCTATGGTT	ACTCCTACAT	TTATTTTCTA	TCAGTAAAAA	TCAATACTAT	CTACAATTAG	8700
CAAACGTCAC	CGCTAAAAAA	TTAATAGAGA	ATTATGATAC	TCTAGAGGAA	ATAGACTTTG	8760
CATTGGGAAA	ATCTGGTGTC	CTATTATCAT	ТААТААААТА	CTATCAATTT	ACCAATGACA	8820
ATACTCTTAA	AATTTTCATC	CACAATAGTA	TAGGGGAAAT	TTATCATTAT	TTCCTACAAA	8880
GAGATACAGC	CAAAGAAAGC	ATTTTAGACT	ATAGCTTTGC	TCATGGATAT	TGTGGAATTG	8940
CATATGCTTT	ATTTGCCTAT	TCTAAAGTCT	TAGAACCTTC	TATGTTTTAT	AATGATCTCC	9000
ATACATTCCA	TACTGAATTA	AAAAAATTAT	TAGAAAAAGT	TACTTCTAAT	ACTGAAAATT	9060
TAGGAAATTT	ACAACTTTCT	TGGTGCAAAG	GAATTTCCGG	AATAATCTTA	TATCTTTGTA	9120
TGTACGATTG	TGACGGAAAC	AAAGATATTA	TTAGTAAATA	TCAAGAATTT	GTTTTTAACC	9180
ATCATCTAAA	AATGATGACA	GGATATTGCC	ACGGAATAAC	TAGCTTACTA	CAAACCACTG	9240
TCTACAATCA	AAACAAATTA	CTGATGAAAA	AAATCCAACA	GGTAATTTTA	GCATGTTCTG	9300
AACGAGATGA	TCACGGTTTA	CTGATGTTTC	AAGGAGATAG	TGGTAAAGCA	GATTTGTTTG	9360
ACTTCGGAAT	AGGAAGCATG	GGGTATATTG	GTGTCTATTA	AATAATAAAT	TCCCATTCGA	9420
TGTGCAGACA	TAAGGAGAAA	AGTATGAAAT	TATTTTGGAC	AAACAACATA	TATAGACAGT	9480
TGCTGCTAAA	CAGCTGTTTT	TCATCATTCG	GCGACAGTAT	TTTCTACCTC	GCCATTATCA	9540
ATTATGTGGC	TCAGTACAAT	TTCGCTCCGC	TAGCGATTTT	ACTGATTTCC	ATTTCAGAGA	9600
TGGTTCCCCT	ACTATCGCAA	CTCTTTCTCG	GGATTCTAGG	AGATTTTCAA	GAAAATAGAG	9660
TCAAACACGC	ACTCTGGATT	GCCAAAATCA	AAATCCTGCT	CTACGCTATT	TTGACAGTAT	9720
TTCTCGTCTT	GTCGCCCTTT	TCATTAGTTT	CAGTCATTAT	GATTGTCATC	ATCAACCTCA	9780
TCTCTGACAC	CTTGAGCTAC	CTGTCTGCCT	ACATGATGAA	CGCCCTCTAC	ATCAGTGTAA	9840
TTAAGGACGA	CCTGCATGAT	GCCATGGGGT	TCAGGCAGTC	TCTGATGAGG	GTTGTCCGTA	9900
TTGTCGCCAA	TCTGGCTGGC	GCATTCCTTA	TCAATGTTAT	AAGTATTCAA	ACTATTTCCC	9960
TTATCAACAC	TCTGACTTTT	GTCATTGCCT	TTTTGGGCCT	GTATGTTATT	CGACATACCT	10020
TGTATGAGGT	TGAAAAAAGA	ATTGAAATGT	CACATACAGC	ACTGAGTTTT	AAGAAATATT	10080

984 TTCAACATCT TAAACAGTCG CTGGCTGTGC TCCTGAGGTT AAAAGATACC GTCATACTAC 10140 TGTTTCTGAC GACCAGTATG ATTGCCATCT TGGATGTGTC CCCTCGGCTG ATTGCCCTCC 10200 GCTTCATCCA ACAGACACTA GCACAACTGA GCATTGGGCA ACTCCTCGCC CTGCTCTCCA 10260 TCATCATGTC TTGTGGAGCT ATCCTTGGCA ATATGACCAG CAGTAATCTA TTTAAAAATA 10320 TCCGTTTCAC GCACCTCTTG GTTTTCTGTG AGATTTCCCT ATTGACTCTA ATAACTAGTA 10380 TCCTTTGTCA AGCCTATATC GTAATTTTCA TGACCAGTTT CATCAGTTCT ACGATTATCG 10440 GCATTCTCAG CCCTCGCCTA CAAGCAGCTG TCTTTGCCCA TATCCCCAGT GACAAGATGG 10500 GGACGGTGGG CTCTGCTCTG AGCACAGTGG ACATTCTCGC CCCGTCCCTG CTCTCCCTAT 10560 TAGCCCTATC CATAGCATCG GGCGTTTCGG TGCAGTTAGC ATTGATATTT TTGTATCTTA 10620 TTTTAATTGC TCTTATCTTT TGTCAATGGT TAGTCAAGTT CAACACTCAT AACTAACGAA 10680 AAAGCATGTG TAGATTTCAC ATGCTTTTAA TCTCCCCAAT CGTCAGGTCA AGTACAACAA 10740 AGTCACTTCT TTGATTAAGC GAGTGTTCTA ATATAATTAT AAGCGCCCTG TCATTACCGA 10800 ACCCATTCGC CATTATAGTT GACAGAATAG CCATCTACGG TCGTATTCAC TGCCAAAGCA 10860 CCTGAGCTAT AAGCATAGTA CCAGTTGCCA TTGACCTGGA ACCAACCTGT CTTCATGTCT 10920 CCATTACCTG CATTTAGGTA GTACCAAGTT GAACCATCTT GATACCAACC AGTTGCCATA 10980 GCTCCTGATG AACGGAGATA GTACCATTTG TTCCCAAGGT TTTGCCAACC TGTTTTCATA 11040 TCGCCATTTG GGTGGTCTAA ATAATACCAA GTGGTACCTT CCTGATACCA GCCAGTGGCC 11100 ATTGCTCCTG AGGAACGGAG GTAGTACCAC TTATTACCTA GATATTGCCA ACCTGTTTGC 11160 ATAATACCAG TTGTTGGATC TAGGTAGTAC CAAGTCGAAT CATCGTTTAT CCACCCCGCA 11220 CGTCTTTCAC CACCAAGGTA GTTTTCTCCA TTAATTTCCG TCTTAGCTAG ATAATACCAG 11280 TTAGACTGAT CATAAAGCCA ACCTGTCTCT AAAGAATGAT TTTGATTAAA GTAATAGTTC 11340 GTATAATAAC GCTTCTCTTC TTTATCTTCT GAATCTTCAC GTTTTTCCCC GTACTTTCTT 11400 CCAACACTGT CTTTAGTTTT AATCTCTAAT GTTTTCCAAC CAACAACTC TTGTAGCACT 11460 CCATTTTAT CGAAGTAGTA CCACTCTGAC TTTGGAAAAC CTTCTAATCT GATACCATTT 11520 GGGTAAGGAC CAATTGTACT ACCTTTAGAT GGAAACGGGA TATATTGCCA GCCGACAACC 11580 ATCTCTCCAG ATAGAGAATC AAAATAATAG TACTTACCAT CAATCACTCG CCAGTAGGTT 11640 TCTTTGAGGT CCCCCTTTTT GTAGTAGGTT CTTCCGTTTT CTTGGACAAA CTGCCATCCT 11700 TCAGAATCAT CTGCAAATAC TGTACTGGTC CCTAGCAAAC CAAAGAAAAA TACTGTCAGT 11760 CCAACTTGCA TAGTTTTTTT CAAAATTTTC ATCTATATAC CCTCCAATAT TAAATCCACT 11820 CACCAGATGA GGCGAAATTA TAAACTTTAC CATCGATAGT TTGGCTACCT GTAACCATTG 11880

985

CTCCAGG 11887

### (2) INFORMATION FOR SEQ ID NO: 147:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 11340 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 147:

CCGGTATGTT	CTGGAATACT	ACCAATCTAA	GCTGGCTGTG	CCCTACAGTT	TTACAACCCT	60
GTACGAATAC	CTTAAGGAAT	ATGACCGATT	TTTCAGCTGG	GTTTTGGAGT	CTGGTATTTC	120
AAACGCTGAT	AAAATATCCG	ATATTCCTTT	ATCAGTTTTG	GAAAATATGT	CTAAGAAAGA	180
CATGGAATCC	TTTATCCTTT	ATCTACGTGA	ACGTCCCTTG	CTGAATGCTA	ATACAACAAA	240
ACAAGGTGTT	TCACAGACAA	CTATCAATCG	AACCTTATCA	GCACTTTCTA	GTCTTTACAA	300
GTATCTAACC	GAGGAGGTTG	AAAACGATCA	GGGGGAACCT	TATTTCTATC	GTAATGTAAT	360
GAAAAAAGTT	TCCACCAAGA	AAAAGAAAGA	AACCCTTGCT	GCCAGAGCTG	AAAATATCAA	420
GCAAAAACTC	TTTCTAGGTG	ATGAAACAGA	AGGTTTTCTA	ACTTATATCG	ATCAAGAGCA	480
CCCACAACAG	CTTTCAAATC	GAGCTCTCTC	ATCATTCAAC	AAAAATAAAG	AACGAGATTT	540
AGCCATTATT	GCCCTTCTCT	TGGCATCTGG	TGTTCGCTTA	TCTGAAGCTG	TTAATCTAGA	600
TCTAAGAGAT	CTCAATCTAA	AAATGATGGT	TATTGATGTT	ACTCGAAAAG	GTTGCAAACG	660
TGACTCAGTC	AATGTCGCTG	CTTTTGCTAA	ACCTTATTTA	GAGAATTATC	TGGCCATTCG	720
GAATCAACGC	TATAAAACGG	AAAAAACAGA	TACAGCCCTT	TTTTTAACTC	TCTACAGAGG	780
TGTTCCTAAT	CGTATCGATG	CTTCTAGCGT	TGAGAAAATG	GTTGCTAAAT	ACTCAGAGGA	840
TTTTAAAGTG	CGTGTAACAC	CCCATAAACT	GCGCCATACA	CTAGCAACTA	GGCTCTATGA	900
TGCGACTAAA	TCACAAGTTT	TAGTCAGTCA	CCAACTAGGA	CATGCTAGCA	CACAAGTCAC	960
TGACCTCTAT	ACCCATATTG	TTAGTGATGA	ACAAAAGAAT	GCTCTGGATA	GTTTATGATT	1020
TTACGTATTT	TAAATTATGT	АААТАААТАТ	CAAAAAAAGA	AGTTGGCCAA	CTTCTTTTTG	1080
ATTTATCCAA	CTACCGCTTC	AGCGATTTCT	TCACGGCTAA	TACCAGCGAA	GTAGCGTGTG	1140
ATATCAATGG	TTTTTAGCGC	CTTAAGAACA	TCTTCGCGTT	CGTATTTCAC	CCCACGAAGG	1200
ACATCTTCTA	CTGCAGCAAC	GTCTTCAATA	CCAAAGAAGT	САССАТАААТ	CTTGATGTCT	1260
TGGATTTTTG	ATTCAGTAAC	GTTAGCAAAG	ACTTCAACCT	TACCACTAGT	GAATTTGATT	1320

986 CCACGACGGA CGTTAAATTC AGGTGATTTA CCATAGTTCC AGTCCCAAGT TCCAAACTTA 1380 GTATCCTTGA TGCGATTGAT TTCGGCCAAT TCTTCTTCTG AAAAGACGTA TTCAGTCATC 1440 TCTGGGTACT CTTTTTCAT GTATTCCAAG AGTAAATCAC GGAATTTTTC GACTGTGATT 1500 TTTTTTGGTA ATTCATTGAT AATATTGGTT ACACGGCCAC GGACGGATTT CACACCTTTT 1560 GATTCAAATT TATCTTTTGA AACCTTAAGG GCATTTGCGA GGACTGACAA ATCAACGTCA 1620 AAGAGCAAGC AACCGTGGTG CATGATACGG CCGTTGATAT AGGCTTGGGC ATTGCCACAG 1680 AACTTCTTAC CATCAATCTC AAGGTCATTA CGACCTGTGA ACTCAGCTTT AACCCCAAGT 1740 TGAGCCAGGG TATTGATAAC CGGAGTTGAG AAGCTCTTGA AGTCAAATGC CTTATTTTCA 1800 TCTTCTTTGG AGATGATCGT GTAGTTGAGG TTATTTAAAT CGTGGTAAAC AGCTCCACCA 1860 CCACTAATAC GGCGAACTAC CTCAATACCA TTTTCGCGAA CATAATCACG GTTGATTTCT 1920 TCGATAGTGT TCTGGTGACG ACCAACAATG ATAGATGGCT TGTTAATCCA AAGTAGGAAG 1980 ATTTGATCCT CATCCAAAAG GTGTTTAAAG GCGTATTCTT CCAAGGCAAT ATTAAAAGCA 2040 GTGTCATTTG AATGATTGAT AATGTATTTC ATGATATCCC TTTACTTTAT ATGATAGAAA 2100 CTGGAAATAA CCTTCCAGTC TAATCTATCT TCGTTTTATT TTTTCTTAGG TGAATGGATG 2160 GCCATTCCTA GAACATCTGC AAACGCTTCG TACATCACTT CAGAGTAAGT TGGGTGCCCG 2220 TGGATGGTCT TCAGCATTTC CTCAACAGTG ATTTCCATTT CGATGATGCT TGATGCTTCG 2280 TTTATTAATT CTGCGGCTGC AGGACCAATA ATGTGTACAC CAAGGATTTC TCCGTATTTC 2340 TTATCAGCGA TAACTTTTAC GAAACCTTGA GCTGCGTCAG ATGCAATAGC ACGACCGTTA 2400 GCAGCAAAGT TAAACTTACC GATGGCAACA TCGTATTTCT CACGGGCTTG TTCTTCTGTC 2460 AAACCTACTG CTGCTACTTC AGGGAGAGTG TAGATGGCTG CAGGAGTCAA ATTCAATTTG 2520 GCAACTGCAT GATTTCCTTT AAGGGCATTT TCAGCGGAAA CTTCACCCAT GCGGAAAGCT 2580 GCGTGAGCCA ACATCTTAGT ACCGTTGATG TCACCTGGTG CATAAATGCC TGGAACTGAA 2640 GTTTCCATGT ATTCGTTGAC CTTGATACAA CCACGATCCA ATTCAAACTC AACCTCTCCA 2700 ATACCTTCAA GGTCTGGCAT ACGACCAATT GAAAGAAGAG CTTTGCTTGC GATGATATCG 2760 TCTTTTCCTT CAACCTTGAT ACGAAGTTGA CCATTTTCCT CAATGATTTC TTGCAGTTTA 2820 GTACCAGTCA AGATGGTCAT TCCTTTACGC TCAAGAATCA AGCGAAGGTT CTTAGAAACT 2880 TCCACATCCA TAGCTGGAAC TATACGGTCC ATCATTTCGA TAACAGTCAC TTTTGAACCA 2940 AATGTCATGA AGGCCTGACC GAGTTCGATA CCGACAACTC CACCACCGAT GATAACAAGG 3000 CTTTCTGGCA CTTCGTTCAT TTCAAGAATG TCATCACTAG TCATGACAAG TGGAGATTCC 3060 ATACCAGGGA CGTTGATCTT GTTGACTTTT GAACCACCAG CAAGAATGAT TTTCTTGGTT 3120

TCAAGCAATT	CAGAACCATT	TACCAAGACG	TTCTTGTCTT	TAGTGATTGT	ACCAATTCCT	3180
TTATGAACAG	TAACTCCGTA	GCTACGAAGA	AGTCCTGCAA	CACCACCAAC	AAGAGTATTA	3240
ACAACTTTAG	ATTTAGTTTC	TAAAAGTTTT	TCCATATCAA	CAGTGAAGTT	AGGATTTTCA	3300
ATCACGATAC	CACGATTTGC	AGCATGACCG	ATATTTTCAA	TAATTTCAGC	GTTATGAAGG	3360
TAGGTCTTGG	TTGGAATACA	TCCACGGTTT	AAGCAGGTTC	CACCAAGTTC	AGATTTCTCA	3420
ACAAGGGCAA	CCTTACCGCC	GAATTGGGCA	GCTTTAATGG	CTGCAACATA	ACCAGCAGGA	3480
CCTCCACCAA	TCACAACGAT	ATCAAAAGCA	TCATCGCTCT	TACCATCATC	GTTTGAGGTA	3540
CTTGCTACAG	GTACAGGGCT	AGCTTCTGGC	GATGCTGCTC	CAGCTGTTGG	GATGTTTTCC	3600
CTTTCTTCAC	CAAGGTAACC	GATAACTTCC	GTTACAGGGA	CAGTTTCACC	ATCTCCTTTG	3660
AGAATGGCAA	TCAAGTACCC	ATCTTCTTCG	GCTTCCAATT	CCATGCTGAC	TTTATCAGTC	3720
ATGATTTCCA	AAAGGATTTC	TCCTTCTTTT	ACAAATTCTC	CGACTTTTTT	ATTCCATTGG	3780
ACGATTTGTC	CTTCTGTCAT	ATCCACGCCG	GCTTTTGGCA	TAATTACTTC	TAAGGCCATG	3840
TCTTCCTTCC	TTTATCTATA	TCTTAAAAAT	GAATACTCTT	GCTCTTAAAT	TAACATTGAG	3900
ATTGGCGTTT	CAATCAACTC	TTTCAAGTCC	TTCATAAACT	TAGCACCAGC	CATACCATCT	3960
ACGACACGGT	GGTCAATGGT	TAATCCTAAA	CTCATGATTG	GGCGAATCAC	AATTTCACCA	4020
TTGACGACAA	CTGGCTTCTC	GATTGTCGAA	CTGACACCAA	GGATAGCTGA	GTTGGGTTGG	4080
TTAATAATCG	GACCAAAGGA	CTGAACACCA	AACATTCCCA	AATTACTGAT	TGTGAATGTT	4140
GAATTTTGTA	ACTCACTTGG	AGCCAATTTA	CCATCCAAGG	TACGGCCAAT	AACATCCTTA	4200
AAGGCTACAA	CCAGTTCTGA	AAGACTCATC	TTCTCAGCAT	TGTAAACAAC	AGGTGTCATC	4260
AATCCATTAT	CCATCCCAAC	TGCCATGGCA	AGATTGACAT	AGTTGTGAGT	GATAATAGTC	4320
TTGCCATCTT	CTGTCAATGA	AGCGTTGATG	TATGGGTGTT	TCATAAGAGT	CTTAACAACT	4380
GCAAGCGAAA	GAAGGTCTGT	TACAGTAGTC	TTCTTCCCAG	TTGCTTCCAT	GATTGGCTCA	4440
AGAACCTTCT	TACGAAGAGC	CAACATTTCA	GTCATATCAA	CTTCATAGTT	GAGGGTGAAG	4500
GTTGGCGCAG	TCAAGTAAGA	TTCAACCATG	CGTTGGGCAA	TAACCTTACG	CATTGGTGTC	4560
ATTGGAATAC	GCTCGATTTT	ACCATATGGT	GTTACGTTAT	CAGGGACTTC	TTCCACTTTT	4620
TCAATCTGAG	CAGGAGATTT	GATGCTATCG	TTTTCGATAT	TTTCAGGAAG	CAGGGCCAAA	4680
ACATCCTTCT	TCATGATTTT	ACCACGATGA	CCGGTTCCTT	GGATTTCCTG	CCAAGCAATG	4740
TTATGTTCGA	GGGCAATTCG	TTTTGCAAGT	GGCGAAATGC	GAACCACGTT	TGTGTCTTTA	4800
TAAGTTTCCA	CGTCTTCTTT	GTGGACACGA	CCGTTTGCAC	CTGAGCCAGA	AACGTCGTAG	4860

			988			
AGGTTTATCC	CTAAATCATC	CGCTAACTTT		GAGTCGCTCT	TAGCTTGTCA	4920
TCAGCCATGA	CCTCTCCAAT	TCTATTTATG	ATACAAAGGG	CGTCAAAAGC	GACTGAAAAA	4980
TAGGAAATCG	ACGATGGCTT	CGATGAAGCC	AAGGAGATTT	ATCTTTTTC	CGATCTTTTA	5040
GCCCGTGCTC	TAATCTAAGA	TATTAATGAC	GAAGAGCTCT	GCACCTAAAA	GATACAAAGT	5100
TTCTCGTCAG	CTTTATTTTA	TTTACATAAC	TTATCTTATG	TAACCCTATT	CTTTGTTATA	5160
AGTTTTTCGG	ATTGCATCTT	TGATACTTTC	AACTGTTGGA	ATCATTGCAT	TTTCTAGGTT	5220
TTGTGCATAA	GGCATCGGCA	CATCTTCTCC	TGCACAACGG	CGAATTGGTG	CATCTAGATA	5280
GTCAAATGCT	TCTGATTCTG	AAATAATAGC	TGAAATTTCA	CCGATATAGC	CACTTGTTTT	5340
GTGGGCATCG	TTGACCAGAA	CAACCTTACC	AGTCTTCTTC	ACTGAGTTTA	TGATGATATC	5400
CTTATCAAGC	GGAACAAGGG	TACGTGGGTC	AACAATTTCA	ACTGAAATTC	CTTCTTCTGC	5460
TAATTCTTCA	GCAGCTTGAA	CCACACGGCG	AAGCATTTTT	CCATAAGTAA	CAACTGTTAC	5520
ATCCGTTCCT	TGGCGTTTGA	TTTCACCAAC	CCCAAGTGGA	ATTGTGTAGT	CTGGATCAAC	5580
TGGCACTTCC	CCTTTTTGGT	TAAATTCTGA	CTTGTACTCA	AGTATAATAA	CTGGGTTGTT	5640
ATCACGGATA	GAAGACTTAA	GCAGGCCTTT	CATGTCCGCA	GGTGTTCCAG	GTGCCACAAC	5700
CTTAAGTCCT	GGAATGTGAG	TAAACCAAGA	CTCTAGAGAT	TGTGAGTGCT	GGGCGGCAGA	5760
GCCAACTCCG	TTACCAGCTG	CACAACGAAC	AGTCATTGGA	ACCTGACCTT	TACCACCAAA	5820
CATGTAACGT	GTTTTAGCAG	CTTGGTTGAC	GATATTGTCC	ATGGCAATAA	CAGAGAAGTC	5880
CATGAAGGTC	ATATCGACGA	TTGGACGAAG	TCCTGTCATG	GCTGCTCCTG	CTGCTGCTCC	5940
AGAGATGGCA	GCTTCAGAAA	TCGGACAGTC	ACGGACACGT	TCTGGACCAA	ATTCTTCAAG	6000
CATTCCAACA	GAAGTACCGA	AGTCTCCTCC	GAAGACACCG	ACGTCTTCTC	CCATCAAGAA	6060
CACATTTTCA	TCGCGACGCA	TTTCCTCAGA	CATAGCAAGG	ATAATGGTGT	CACGGAAGGA	6120
CATTGTTTTT	GTTTCCATTT	TATCTCTTTC	TCCTTAGTCT	GCGTAAATAT	CTTCAAAGGC	6180
TGATTCAAGC	GGTGGGAATG	GGCTTTCCTC	TGCAAATTTA	ACAGAAGCTT	CTACTGCTTC	6240
CTTTACTTGC	GCTTGGATTT	CTTCCAATTC	TTCGGCACTT	GCAATGTTAT	TTTCAATAAG	6300
GTAATTGCGG	AGGTTTTCGA	TTGGATCTTT	TTGTTTCCAC	AATTCCACTT	CTTCACGCGT	6360
ACGATATTTA	CCAGGGTCAG	ATGATGAGTG	ACCGAGCCAG	CGATAAGTTA	CACTTTCAAT	6420
CAAGACTGGA	CCATTGCCAC	TGCGAACATG	GTCCACAGCT	TTCTGAAATC	CTTCATAGAC	6480
ATCGATGACA	TTGTTACCGT	CTTCGATGAA	CATTCCAGGA	ATTCCATAAG	CGGCGCTACG	6540
ITGATGGATA	TGTTCTATAT	TGGTCATTTT	CTTGATATCC	GCAGAGATAC	CGTAACCGTT	6600
GTTAATGCAA	TAGAAAATGA	CTGGCAGGTT	CCAGATAGAA	GCCATGTTCA	CTGCTTCGTG	6660

GAAAACACCT	TCATTGGTCG	CACCATCTCC	AAAGAAGCAG	ACAACGATTT	TACCGGTATT	6720
TTGCATTTGC	TGACTGAGGG	CTGCACCGAC	AGCGATCCCC	ATACCACCAC	CTACGATACC	6780
ATTGGCACCA	AGGTTCCCAG	CATCAAGGTC	AGCGATATGC	ATAGATCCAC	CTTTCCCTTT	6840
ACAGGTTCCA	GTGTATTTAC	CAAGGATTTC	AGCCATCATT	CCGTTGAGGT	CAATCCCTTT	6900
AGCAATAGCT	TGCCCGTGTC	CACGGTGGTT	TGAGGTAATC	AGATCATCTG	GATTGAGAGC	6960
TAACATAGCC	CCCACGTTAG	CTGCCTCTTC	ACCAACAGAA	AAGTGCGTCA	TTCCTGGCAC	7020
TTTCCCTTTC	TTTACTAATT	GTGCAATTTT	TAAGTCCATG	CGACGGATTT	CTTCCATCTT	7080
ACGGAACATT	TCTAGCAAAA	GATTTTTATC	TAAAGTTGAC	ATCTTCTTGC	CTTTCTAACT	7140
TTCTTCTTAC	CTTACTATTT	TACCGCTTTT	GGCAAATACT	GTCAAAGTTT	TTCTAAAAGA	7200
AATTTCACAA	AATAAAAAAG	AAAACCCCGT	GAAAACAAGG	GATTTTCTTG	TCAAGAATAT	7260
TTTTTCACAA	ACTTTTTAGC	ATTTGGATTT	TGCTAAAGAT	TCAAATCTCT	TCATAATCAC	7320
AGTTAAACGC	CAACGGTAGA	GCGCCCCGCT	CACAATCAAA	СТААТААТСА	AGCCGATCCA	7380
GTAAGAATAA	GCTCCAAAAT	CTGTTAGGGA	ATCAAATAGC	GTAnCACAGG	GATTGCTACG	7440
CCCCAATAAC	CAAGCAAACC	AAGGTAAAAA	GGAATAACTG	TATCCTTATA	CCCCCGCAAA	7500
ATTCCCTGAA	GCGGCGCCGC	AAAGGTATCT	GCTAACTGGA	AGAAAAGACT	ATAAGTTAAA	7560
AAACGCACTG	TCAAATCGAT	AAATTTTGGG	TCGTTACCAT	AAAGACTGGC	CACATTTCCC	7620
CTAAAAATGT	AAAGGAAGGT	TAAGGTGAAG	GCCGCAAAAA	TGAGGGCAGT	CCATCTTCCT	7680
AGACCAATAT	AGGTTTTCGC	ATCATCAAAT	CGCTTGGCTC	CCACTTCATA	GGAAACGACA	7740
ATAGCCATAG	CCGATGAGAT	ACTCATAGGA	AAGGCGTACA	TAAGACTTGA	AAAGTTCATA	7800
GCTGACTGGT	GACTAGCTAT	AATCAAGGGC	GAAAACTTAG	CCATAATCAA	GCCAACCACT	7860
GAAAAGATAG	CCACTTCCGC	GAAGACAGTT	CCCCCAATAG	GCAGACCTAA	ACGAACTCCT	7920
TCCTTAATTT	TATCCATATT	AAGTGGAATT	CGTTTCTCAA	GGTGTAAGGC	TTTGAGCTTC	7980
TCCTGTTTAA	ATAAAACCAG	AACAGAAATC	CCAAGCAAGA	CCCAGTAGGC	CAAGGATGTT	8040
CCTAAACCAG	CACCAGCCCC	TCCCAGTTCT	GGAACACCAA	AGGCACCGTA	AATCAAGAGA	8100
TAGTTAAATC	CGCTATTGAG	AGGGAGTAAC	AAAAGCATGA	GGTACATGGA	CAGTTTGGTC	8160
AAGCCCAGCG	AATCCAGCAA	GGAACGAATG	ACGCTAAAGA	GCAACAAGGG	GATAATCCCG	8220
ATAGATAAAA	ACCAAAGATA	GCGAACCGCT	ACTGCCGCTA	CTGCTGCTTC	TAACCCAATA	8280
TGATTCAAGA	TTATTGGTGC	CAAGAAAAGT	ACCATCCCCA	GCAAGACCAC	AGATAGGCCC	8340
AAGGCCAAAT	AAATAAATTG	GTAAAAATCA	GACGCAACTT	CTTCCTTTTT	GCCTCGACCA	8400

990 AGATGGTGAC CAATGATAGG CACCAAGGCT GACACAATCC CTGTTAGAAA TGTAAAGAAA 8460 GGATTCCAGA TACTGGTTGC CATAGATACA CCAGCCAAGT CCATAGTGTT GTATTGACCT 8520 GTCATTGCAG TATCAACAAA AGAGGCAGAA TAATTGGCAA ATTGGTAGAT CAGGATTGGG 8580 AAGAAAATTT TTAAAAATAA TACTAACTTC TCTCGTAAAC ACTTTGTCTT ATACATACTT 8640 CTCTTTCTAT TCTGATTTAT CTAAACCAAA GAGTTTCAGA CCATAGTTTT TCAAACTTAG 8700 CGGAGGTTTA TTAGATTTTG AAGTAGTATG CCAACACGCA CATGTACGAC AATAATAGCT 8760 TCTAACTAAA CCTCCGTTAT CATATTGAAC CGCATGGTCA GCTTTTTCTT TAGTTTCATA 8820 TTGAATTTTG GAACGATTAG CTGCGGGACA GTAAATTCCA CTATTAGATT TCGCTTGTCT 8880 CTCCCTACGT TTTCGAAAAT AATTCATATT CTAACTCCTA TCAAGCTTGA TAGACGATTT 8940 GTCCCTTACA GATGGTATAT TTAACCTGCC CTTTTAAGGT TTCACCGATG AATGGTGAAT 9000 TAGCTGCTTT GGAAGCAAAA TGGGAGTCCA CAAAGCGGTC AGCCTTGGCA TCAAAAATAG 9060 TGATATCTGC TGGACCATTC TCAGCCAAGT AACCTGCTTC AAAGTTGTAA AGCTTGGCTG 9120 GGTTGTATGT CATTTTTCA AGTAATTCCA TCAAGCTCAA CTCACCAGCT TCTACTAAAT 9180 AGGTCAAGCT GAGAGACAGG GATGTTTCTA AGCCAGTCAT ACCAGATGGC GCTTTGGTAA 9240 TATCCTCAAC ATTTTTTCA TCTACATGAT GAGGCGCGTG GTCAGTCGCA ATAACTGTGA 9300 TGACACCTGA TTTGAGACCT TCGATAACGG CACGACGGTC TGATTCCAAA CGAAGCGGTG 9360 GATTCATCTT AGCATTGCTA CCTTGTGTTA AAAGAAGTGC TTCTGTCTTA GAGAAATGCT 9420 GTGGCGCTAC TTCTGCTGTG ACTTCTGCAC CTAACCCCTG AGCAAACTCC ACTACTTTAA 9480 CACTTTCTTC CTTAGACAAA TGCTGGATGT GAACATGGGC TTTAGTTGCA TAGGCAATCA 9540 TGACATCACG CGCCATCATA GCGTACTCAG CCACCCCAGT AGCACCGCAG ATATGGAAAT 9600 GTTCTCTAGC AATATTTCA TTAAAGCCAA GAACACCGTT CAAACCTGGA TCTTCCTCAT 9660 GAAGGCTGAT AAAGGTATTG AGTTTTTTGG CTTCCTCCAT GGCTTCCTTG ACAATCTTAC 9720 TGCTCTCAAG CGGAATACCG TCATCAGAGA AACCAACCGC ACCAGCTTCT AAGAGTGCCT 9780 TAAAGTCAGT CAAGTTTTTA CCATTAAAGT TTTTAGTAAT GGTCGCAACT GTCTTGACAT 9840 TAATCTTCTC TTTGGCAGCT GACTGGAGAA CTGCTTGCAA AGTCTCCACG TCTGAAATGG 9900 TTGGACTGGT ATTAGCCATC ATGACGACAG TAGTAAAACC ACCTGCAGCG GCTGCTAGGG 9960 CACCAGTATG AATGTCTTCT TTATGTGTTT GACCAGGTTC ACGGAAATGA ACATGAATAT 10020 CGACCAAGCC AGGAGCAACC ACAAGACCAG TAGCATCAAT CGTTTCTGCT CCTTCTTCCG 10080 TGATCTCAGA CGCAATTTTG ATAATTTTCC CATCTTGAAC TAAGACATCA CAAACTTGAT 10140 CCAAACCAGA CTTGGGATCC ATTACACGAC CATTTTTGAT TAGTAGCATC TGCTTTCTCC 10200

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TTTATTCATA	GAAATCAACT	TGGGTATCCA	ACAATTTATC	CCCATCATAA	ACAAACTTGG	10260
CTGAAAAGAA	GGGTTTATCC	TCTAAAAGCC	ACTCAACAAA	GGTGTGGTCA	CCTTCCCAAG	10320
TCGGCTTGCT	CAAAACCTCA	TCATAGGGAA	CCCATTCTAG	CGTCCCCTCA	TTGCAGTCAA	10380
TCAAGTCGCC	CTCAAACTCC	GTCACCTTAA	AAACATAGGT	GTACCAGTCT	AAATCTGGTG	10440
TAAATTCAGG	AAAAGTGATG	ACACCTTTTA	GAACTGGCTT	GGCTTTGAGC	CCTGTTTCTT	10500
CAAGGATTTC	ACGCGCCGCG	CATTCCTGGG	GCGTCTCTCC	TCTCTCTAGC	TTACCACCCA	10560
CACCAATCCA	TTTCCCTTCA	TGGACATCAT	TGGGTTTCTT	ATTACGATGG	AGCATGAGCA	10620
GTTCTTTCCC	ATTATCAATG	TAGCAAATCG	TCGCTAACTG	AGGCATATTT	TCTCCTTATC	10680
TAAGCCAATC	GATTGGCTCT	TGTCCTGTCT	CTTTTAAGAA	TGCATTGGCC	TTGGAAAAGG	10740
GCTTGGAACC	CCAAAATCCT	CTATAAACCG	ACAAAGGACT	TGGATGGGCT	GATTCGATAA	10800
TCAAGTGATG	AGGATTGGTA	ACTAATGCCT	TCTTCTTACG	TGCATAAGCT	CCCCAGAGTA	10860
CAAAAACGAC	TGGTCTATCT	AGATGATTGA	CCACCTGAAT	CACAGCATCA	GTAAAAGGCT	10920
CCCAGATTŤG	ACCAGCATGA	CCATTGGCCT	GTCCAGCAGG	AACAGTCAAA	CAAGCATTAA	10980
GAAGCAAGAC	TCCTTGCTCA	GCCCAAGCTG	TCAAATCATG	AGATTTCTTA	ACTCCGATAT	11040
CATCTGACAA	TTCTTTCAAG	ATATTTTGCA	AGGATGGTGG	AGCTGGGATA	GAGTCAGGTA	11100
CAGAAAAACT	CAAGCCCTGC	GCTTGACCTG	GTCCGTGATA	GGGGTCTTGC	CCTAGAATTA	11160
CCACCTTAAC	TTCTTCAAGC	AGTGTTGTCA	AGAGAGCCTG	AAAAACCTTT	TCCTTGGGTG	11220
GATAAATAAT	CCCCTGAGAA	TAGACCTGCT	CCATAAACTG	ATTGATTTTC	CCGAAATAAC	11280
CCTCAGGTAA	TTGCGCCTTA	ATCAAAGCAT	GCCAAGACGA	GTGTTCCATA	GCCGACTCGG	11340

## (2) INFORMATION FOR SEQ ID NO: 148:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 12127 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 148:

AAAAAATAGA	CTTGTTAGAC	TATAAATGTA	GTAAGCCTAC	ACAAGAAAAA	TACATAGAGA	60
TAAAGGTGAT	TATTATGAAA	TTCAAAAAAA	TGCTTACTCT	TGCAGCCATT	GGCTTATCAG	120
GATTTGGGCT	TGTTGCCTGT	GGCAATCAGT	CAGCTGCTTC	CAAACAGTCA	GCTTCAGGAA	180
CGATTGAGGT	GATTTCACGA	GAAAATGGCT	CTGGGACACG	GGGTGCCTTC	ACAGAAATCA	240

			992			
CAGGGATTCT	CAAAAAAGAC	GGTGATAAAA	AAATTGACAA	CACTGCCAAA	ACAGCTGTGA	300
TTCAAAATAG	TACAGAAGGT	GTTCTCTCAG	CAGTTCAAGG	GAATGCTAAT	GCTATCGGCT	360
ACATCTCCTT	GGGATCTTTA	ACGAAATCTG	TCAAGGCTTT	AGAGATTGAT	GGTGTCAAGG	420
CTAGTCGAGA	CACAGTTTTA	GATGGTGAAT	ACCCTCTTCA	ACGTCCCTTC	AACATTGTTT	480
GGTCTTCTAA	TCTTTCCAAG	CTAGGTCAAG	ATTTTATCAG	CTTTATCCAC	TCCAAACAAG	540
GTCAACAAGT	GGTCACAGAT	AATAAATTTA	TTGAAGCTAA	AACCGAAACC	ACGGAATATA	600
CAAGCCAACA	CTTATCAGGC	AAGTTGTCTG	TTGTAGGTTC	CACTTCAGTA	TCTTCTTTAA	660
TGGAAAAATT	AGCAGAAGCT	TATAAAAAAG	AAAATCCAGA	AGTTACGATT	GATATTACCT	720
CTAATGGGTC	TTCAGCAGGT	ATTACCGCTG	TTAAGGAGAA	AACCGCTGAT	ATTGGTATGG	780
PTTCTAGGGA	ATTAACTCCT	GAAGAAGGTA	AGAGTCTCAC	CCATGATGCT	ATTGCTTTAG	840
ACGGTATTGC	TGTTGTGGTC	AATAATGACA	ATAAGGCAAG	CCAAGTCAGT	ATGGCTGAAC	900
TTGCAGACGT	TTTTAGTGGC	AAATTAACCA	CCTGGGACAA	GATTAAATAA	AATGTTTGCT	960
CCATAAATCT	CTAAAGAGAT	GCAGACGTTT	CATCGTACAA	TAAGATAAAG	AAGGCAAGTA	1020
GGGAGGTGTC	GTATCTCCCT	TACTTTCTTC	ACTAGAAAGG	ACAAGATGTG	ACAAAACAAG	1080
CCTTCAAAGA	AGCAGTTTTT	AGGGCAATTT	TTTTCATGAG	TGCAACAGTA	GCTGTTGTAG	1140
CTATTTTGCT	AATCTGTTTC	TTTATTTTTA	GTAATGGCTT	ACCTTTCATA	GCTAACTACG	1200
GCTTTGCCCG	TTTTTTATTA	GGCAGTGATT	GGTCGCCAAC	GAACATTCCG	GCAAGCTATG	1260
GTATTTTACC	AATGATCGTT	GGTTCCTTAT	TAATTACCTT	AGGAGCGATT	GTGATTGGGG	1320
rgccaacagg	CATCTTGACA	TCGGTGTTTA	TGGTTTATTA	TTGTCCAAAG	CCCGTCTATG	1380
GCTTCTTAAA	ATCAGCTATC	AACTTGATGG	CAGCCATTCC	ATCTATTGTT	TATGGTTTTT	1440
rcggcctaca	ATTATTGGTG	CCTTGGATTA	GAAGCTTTTT	AGGAAATGGC	ATGAGTGTCC	1500
PAACCGCTTC	GTTACTATTA	GGAATAATGA	TTTTGCCAAC	CATTATCAGT	TTGTCAGAAT	1560
CTGCTATCCG	AACAGTTCCC	AAAACGTATT	ATTCTGGTAG	CTTGGCTCTA	GGAGCTAGTC	1620
ATGAACGGAG	TATTTTTAGT	GTCATCTTGC	CAGCTGCGAG	ATCTGGTATT	TTATCAGCAG	1680
TTATTTTAGG	AATCGGTCGC	GCAGTAGGTG	AAACCATGGC	AGTTATTTTG	GTGGCAGGCA	1740
ACCAGCCGAT	TATTCCAAGT	GGACTCTTTT	CAGGAACCAG	AACCTTAACA	ACCAATATTG	1800
TTCTGGAAAT	GGCTTACGCA	TCAGGTCAGC	ATAGGGAAGC	CCTTATTGCA	ACCTCAGCAG	1860
TTCTCTTTTT	CCTTATTCTC	TTGATTAATG	CCTACTTTGC	CTACTTGAAA	GGAAAATCAT	1920
CTTATGAGTA	AATACCTGCT	AAAACTTCTC	GTTTATTGTT	TTTCAGCTTT	AACCTTTGGC	1980
CTCTCTTTT	TAATCATTGG	TTTTATCCTC	ATCAAAGGCT	TACCTCATCT	AAGTCTATCC	2040

CTCTTTTCTT	GGACTTATAC	TTCTGAGAAC	ATTTCCCTTA	TGCCAGCGAT	TATTTCCACC	2100
GTTATTCTGG	TCTTTGGTGC	TCTTCTTTTA	GCCTTGCCCA	TAGGGATTTT	TGCTGGTTTT	2160
TATCTTGTGG	ААТАТАСААА	AAAAGATTCC	CTTTGTGTTA	AAATCATGCG	ATTGGCCTCA	2220
GATACCTTAT	CTGGGATTCC	TTCCATTGTT	TTTGGTCTGT	TTGGCATGCT	CTTCTTTGTA	2280
GTCTTCTTAG	GTTTTCAATA	CTCTCTGTTA	TCAGGAATCT	TAACCTCAGT	TATCATGGTG	2340
TTGCCAGTCA	TTATTCGCTC	AACAGAAGAA	GCCCTTTTAT	CTGTTAGTGA	TAGCATGCGT	2400
CAAGCAAGTT	ATGGACTTGG	GGCAGGTAAG	TTACGGACTG	TTTTTAGAAT	TGTTCTACCA	2460
GTTGCCATGC	CAGGTATTTT	AGCTGGAGTG	ATACTAGCTA	TTGGCCGTAT	CGTTGGTGAA	2520
ACAGCTGCCC	TCATGTATAC	ATTAGGTACC	TCTACCAATA	CGCCAAGTAG	TCTCATGTCT	2580
TCAGGCCGTT	CTCTAGCCCT	ACATATGTAT	ATGCTGTCAA	GTGAGGGGCT	ACATGTCAAT	2640
GAAGCCTATG	CTACCGGCGT	GATTTTGATT	ATTACTGTTT	TAATGATAAA	TACTCTATCA	2700
AGCTTATTAT	CTCGAAAACT	TGTGAAAGGA	GCTTCCTAGT	ATGGGAACAT	TTTCAGTCAG	2760
ACACCTAGAC	TTATTTTACG	GGGATTTTCA	AGCCTTAAAA	AATATTTCGA	TTCAATTACC	2820
AGAAAGACAG	ATTACTGCCT	TGATAGGCCC	ATCTGGTTGT	GGCAAATCAA	СТТТТСТААА	2880
AACCCTTAAC	CGGATGAACG	ATTTGGTTCC	TTCTTGCCAT	ATTGAAGGCC	AAGTCCTCTT	2940
AGATGAGCAA	GATATTTATA	GTAGCAAATT	CAACCTTAAT	CAGCTACGTA	AGCGTGTAGG	3000
GATGGTTTTT	CAACAGCCTA	ATCCCTTTGC	CATGTCTATC	TATGATAACG	TGGCTTATGG	3060
CCCAAGGACA	CATGGTATTC	GAGACAAAAA	ACAATTAGAT	GCCTTAGTGG	AGAAATCTTT	3120
AAAAGGGGCA	GCCATTTGGG	AAGAAGTCAA	AGATGATCTT	AAAAAGAGTG	CCATGTCCTT	3180
ATCTGGCGGT	CAGCAGCAAC	GCCTTTGCAT	TGCGCGAGCT	TTAGCAGTAG	AACCTGATAT	3240
TCTGTTAATG	GATGAGCCGA	CTTCAGCCTT	AGACCCTATC	TCCACTTTAA	AAATTGAAGA	3300
CCTCATTCAG	СААСТААААА	AGGATTATAC	GATTATCATT	GTTACCCATA	ACATGCAACA	3360
AGCTTCACGT	ATTTCAGATA	AAACTGCTTT	TTTCTTAACA	GGAGAAATTT	GCGAATTTGG	3420
AGATACCGTT	GACGTGTTTA	CCAATCCAAA	AGATCAGCGC	ACAGAAGACT	ATATTTCAGG	3480
ACGGTTCGGA	TAAGGAAGGA	AAAACCTATG	AGAAATCAAT	TTGACTTAGA	ATTGCATGAA	3540
TTAGAACAAT	CCTTTTTAGG	ACTAGGGCAA	CTTGTCCTTG	AAACAGCTTC	AAAAGCCTTA	3600
CTGGCCTTAG	CCTCCAAAGA	CAAGGAGATG	GCAGAGCTAA	ТТАТСААТАА	GGATCATGCT	3660
ATCAACCAAG	GTCAAAGCGC	TATCGAATTG	ACCTGTGCCC	GTTTGTTGGC	CTTGCAGCAG	3720
CCACAAGTGT	CTGACCTTCG	ATTTGTGATT	AGCATCATGT	CTTCTTGTTC	AGACCTTGAA	3780

994 CGTATGGGAG ACCATATGGC AGGCATTGCC AAAGCTGTTT TGCAACTAAA AGAAAATCAA 3840 CTAGCCCTG ACGAAGAACA GTTACACCAA ATGGGTAAAT TATCCCTCAG CATGCTAGCC 3900 GATTTATTGG TTGCCTTTCC TTTGCACCAA GCCTCAAAAG CTATTAGTAT TGCTCAAAAA 3960 GATGAACAGA TTGACCAATA TTATTATGCC TTATCAAAGG AAATCATTGG ACTTATGAAA 4020 GACCAAGAAA CCTCAATTCC CAATGGAACT CAATACCTTT ATATCATAGG GCATCTGGAA 4080 CGCTCGCTGA TTACATTGCT AACATTTGTG AACGCCTAGT CTACCTAGAA ACAGGAGAAC 4140 TAGTGGATTT GAATTAATTC AACTAATCCT TAAAAGAGAA GAGTACGATT AAGTACTCTT 4200 TTTTATGGTT GTAAAAAAGT TCATTTGACC AATTTAAGCA GTGTAGATAG TGAGGAGTTG 4260 TTTCAATTCT ATCGTGAACG AGGGAATGCT GAAAACTTTA TCAAAGAAAG GAAAGCAGGA 4320 TTCTTTGGGG ATAAGACAGA TAGTTCGACC ATGATTAAGA ATGAAGTACG TATGATGATG 4380 GGCTGTCTGG CTTATAATCT CTACCTCTTT TTAAAGCAGC TAGCTGGTGA TGAAGTAAAG 4440 TCCTTGACTA TCAAGCGTTT TCGACGTCTC TTCCTTCATA TTGCCGGAAA ATATGTCTCT 4500 ACTGCTAGAC GACATATTCT CAAATTCTCA AGTCTATACG CCTATTCAAA ACAGTTTCAA 4560 GCCTTATTTG ATACAATCTG CCAGATAAAT CTGATACTCC CTGTTCCATA TAGAGCTAGA 4620 GGGCAGGGGA AAACATGCCT AACAGAATAA GTCACCTTAT TTTAAAAATC GAGCATCAAA 4680 CCAAGGGAGG AGTCTGCCCT TTTTTAGGAA AAAATCAAGA CAAATCTCCT CAATTATGTC 4740 TCGAACATCA GAAATTAAGC AAAATCACCA GAAGGACAGT ATTTCAACTA GCTTTTCTGG 4800 TAATTTTTGA ACTGTGTAGT TCGTTAGTGC CAGATATGAA TAATTTGGGA TGATAAATCT 4860 TTCTTCCTCA GGTAGCCTAT CATAATACTC TTCAAAAATC TTATCAAAAA CACTCTCTTT 4920 CTTTTGGGCG ATAGTTTCAT CTTCGTATGT AGGAGTCCTC ATCAAGAAAT ACTTCAATTC 4980 TAGGTATTCC TTATCCAACT CTATATAACT TGGCATCAAC TTGTAATCTT CAACCCCCAA 5040 ACGTTCAGCA ATATATTTA ACTTTGTTAG TATTGGTCTG GATTCTCCAT TTTCAATTCT 5100 AATTAATTGA CGGATACTTA ATTCAGACTC ATCACCACAA AATTCTGAAC GACTGATTI r 5160 TTTAGCCAAA CGTAATCTTT TAATTTTTTC GCCAAACTCT CGCAACCTAC AAGAACTTCC 5220 TGAGTTGTTT ACCTCTATTA TAAGCATATA CTGAATCAAA CTATCTATCA GATTTCTTCT 5280 CACTTTAACT AAAGACTAAG AGTTTATCCC TTCGTCTCGG TTTTTGTGTA TTTTTCCACC 5340 ATACCCCAGT AATGCAAGTG CAAAATCCCC TAGAATATGA TAGAATAAGA GAAAGAACTC 5400 TATCAAGGAG GAAATCATGG AAAAACAAAC CGTCGCCGTC TTGGGGCCTG GTTCTTGGGG 5460 AACCGCCCTT TCACAAGTCT TAAATGACAA TGGACACGAG GTACGTATTT GGGGAAATCT 5520 TCCCGAGCAA ATCAATGAAA TTAATACACA CCATACTAAT AAGCACTACT TTAAAGATGT 5580

CGTTCTAGAC	GAAAATATCA	TTGCCTACAC	CGACTTAGCA	GAAACATTGA	AAGATGTGGA	5640
TGCGATTTTG	TTTGTTGTCC	CAACAAAAGT	GACACGACTT	GTTGCCCAGC	AAGTTGCACA	5700
AACCTTGGAC	CATAAGGTTA	TCATCATGCA	CGCATCAAAG	GGATTAGAAC	CTGATAGCCA	5760
TAAACGATTA	TCAACCATTC	TTGAAGAAGA	AATTCCTGAA	CATCTCCGTA	GTGATATCGT	5820
CGTTGTTTCA	GGGCCTAGTC	ATGCAGAAGA	GACCATTGTG	CGTGACCTAA	CTTTAATAAC	5880
TGCTGCTTCT	AAAGATTTAC	AAACAGCTCA	ATACGTTCAG	AAGCTATTTA	GTAATCACTA	5940
CTTCCGACTT	TATACCAATA	CGGATGTTAT	CGGGGTTGAA	ACTGCTGGTG	CTCTTAAAAA	6000
TATTATTGCT	GTCGGTGCTG	GAGCTTTACA	TGGTCTTGGA	TTTGGTGATA	ATGCTAAGGC	6060
AGCCATCATC	GCTCGAGGTT	TAGCAGAAAT	CACCCGCCTA	GGGGTAGCAC	TCGGGGCCAG	6120
TCCATTGACC	TATAGCGGCT	TATCTGGTGT	GGGAGATTTG	ATCGTAACGG	GAACTTCCAT	6180
CCACTCTCGT	AACTGGAGAG	CTGGAGATGC	TCTCGGACGA	GGAGAATCCC	TAGCTGATAT	6240
AGAAGCTAAT	ATGGGCATGG	TAATCGAAGG	AATTTCAACG	ACTCGAGCAG	CCTATGAACT	6300
AGCCCAAGAA	CTTGGAGTCT	ATATGCCCAT	TACACAGGCT	ATTTACCAAG	ТТАТТТАТСА	6360
CGGAACCAAT	ATCAAAGATG	CCATTTATGA	CATCATGAAC	AATGAATTTA	AAGCAGAAAA	6420
TGAGTGGTCT	TAACCCTCTA	TAGAAAGGAT	TTTTATGACA	TCAAAAGTTA	GAAAGGCAGT	6480
CATCCCTGCT	GCTGGACTAG	GAACTCGATT	TTTACCAGCA	ACCAAGGCCC	TTGCCAAAGA	6540
AATGTTGCCA	ATCGTAGACA	AACCAACTAT	CCAGTTTATC	GTGGAAGAAG	CTCTCAAATC	6600
AGGTATTGAA	GATATTCTAG	TTGTCACTGG	TAAATCAAAA	CGTTCTATTG	AGGACCACTT	6660
TGATTCAAAC	TTCGAATTGG	AATATAACCT	CAAAGAAAAA	GGGAAAACAG	ATCTTTTGAA	6720
GCTAGTTGAT	AAAACAACTG	ACATGCGTCT	GCATTTTATC	CGCCAAACTC	ATCCACGCGG	6780
TCTCGGAGAT	GCTGTTTTGC	AAGCCAAGGC	TTTCGTCGGA	AATGAACCTT	TTGTCGTTAT	6840
GCTTGGTGAT	GACTTGATGG	ATATCACAGA	CGAAAAGGCT	GTTCCACTTA	CCAAACAACT	6900
CATGGATGAC	TACGAGCGTA	CCCACGCGTC	TACTATCGCT	GTCATGCCAG	TCCCTCATGA	6960
CGAAGTATCT	GCTTACGGGG	TTATTGCTCC	GCAAGGCGAA	GGAAAAGATG	GTCTTTACAG	7020
TGTTGAAACC	TTTGTTGAAA	AACCAGCTCC	AGAGGACGCT	CCTAGCGACC	TTGCTATTAT	7080
CGGACGCTAC	CTCCTCACGC	CTGAAATTTT	TGAGATTCTC	GAAAAGCAAG	CTCCAGGTGC	7140
AGGAAATGAA	ATTCAGCTGA	CAGATGCAAT	CGACACCCTC	AATAAAACAC	AACGTGTATT	7200
TGCTCGTGAG	TTCAAAGGGG	CTCGTTACGA	TGTCGGAGAC	AAGTTTGGCT	TCATGAAAAC	7260
ATCCATCGAC	TACGCCCTCA	AACACCCACA	AGTCAAAGAT	GATTTGAAGA	ATTACCTCAT	7320

996

CCAACTTGGA AAAGAATTGA CTGAGAAGGA ATAACAAAAT CATTTATATA AAGATTAGCC 7380 ACACATAAAT TAAGTAAATT CTCTACTTGA ATCTACCTAT TTAATAAAAA CTAATGAAAA 7440 CGCTATACTT GTATTTGTTT TTTCATTAAA ATAAGAGTAG AATAAATTAG TATAGTAAAA 7500 CAAAAAAGCA CCGAATCGGT GCGCACTTTT TCAAGTTGTG TACGGACAAA GCCTTATTTT 7560 AACTTTGCTA TGTTGTTTCT AATGGTTCCA AAATAATAAA TAATTTTAAA TTTGACTTAA 7620 CTGTTGGAGT AGTCATGGTT AAATTAAATC AACCGAGCCG AACATAAGTT GTTTAATTTT 7680 GTGGAAGCTA TTAATAAAAA TATAATAAGG GAGAAAGATA GGTGTAATTT TAATTTTAAA 7740 GTAATTGCGG ACACTATCAA AGAAAAAGAT TATGGAGAAC AAATTTGTAG AATTTATCGA 7800 AAACAATAAA AAAGTAATCA TTTCATCAGT TGCAGTTGGT GTTGTATTGG TATTAGGGTT 7860 TGGATGGTAT TCATATAACC AACAACAAGC AGAACAACAA GCAAAAATTG TACAATTAGA 7920 AAAAGATAGC AAATCAGACA AAGAACAAGT TGATAAACTA TTTGAATCAT TTGATGCATC 7980 TTCAGATGAA TCTATTTCTA AATTAAAAGA ACTATCTGAA ACTTCACTTA AAACCGATGC 8040 AGGTAAAGAC TATCTTAATA ACAAAGTCAA AGAATCATCT AAAGCAATTG TAGATTTTCA 8100 TTTGCAAAAA GGTTTGGCTT ATGATGTTAA AGATTCAGAT GACAAATTTA AAGATAAAGC 8160 AACTCTTGAA ACAAATGTAA AAGAAATTAC AAAACAAATT GATTTTATCA AAAAAGTTGA 8220 TGAAACTTTT AAACAAGAGA ATTTGGAAGA AACTCTTAAA TCTCTAAATG ATCTTGTTGA 8280 TAAATATCAA AAACAAATCG AACTTTTGAA GAAAGAAGAA GAAAAAGCTG CTGAAAAAGC 8340 TGCTGAAAAA GCAAAGGAAT CTTCTAGTCA AAGTAATTCT TCTGGTAGTG CTTCTAATGA 8400 GTCTTATAAT GGATCTTCCA ATTCAAATGT AGATTATAGT TCATCTGAAC AAACTAATGG 8460 ATATTCAAAT AATTATGGCG GTCAAGATTA TTCTGGTTCA GGAGATAGTT CAACAAATGG 8520 TGGATCATCA GAACAATATT CATCTAGCAA TTCAAACAGC GGAGCAAATA ATGTCTACAG 8580 ATATAAAGGC ACTGGTGCTG ACGGCTATCA AAGATACTAC TACAAAGATC ATAATAATGG 8640 AGATGTGTAT GATGACGATG GAAATTACCT TGGGAACTTT GGTGGCGGCA TTGCAGAACC 8700 TAGTCAACGC TAATAACTAT TTTAGAGCTG TGTTGTTTCG AATGGTTCCA AAACACATTA 8760 AAAGCTACTC ATTTTTAAG TAGCTTTTTT CTTATTCAAG TTTACATATT ATACTCAATG 8820 AAAATCAAAT TCAAACCACG TCAGCATCGC CTTACCGTAG GTATGGTTAC TGACTTCGTC 8880 AGTTTCATCT ACAACCTCAA AACCATGTTT TGAGCTGACT TCGTCAGTTC TATCTACAAC 8940 CTCAAAGCAG TGCTTTGAGC AACCTGCGGC TAGCTTCCTA GTTTGCTCTT TGATTTTCAT 9000 TGAGTATTAG TCGTCACAAT CCCATTCCCT TGTAGAAAAG CAAAATGGCG AGTCCTACGA 9060 ACAAGACTAC CGCTCCTAAT CTCTGGCTGG TGTTATACAT CCGTTTTTCT CCTCTAACTG 9120

GAAAGATAAC	TGCTAGAAAT	GCGCCACCAA	CTGCACCACC	GATATGGCCT	GCTAGGCTGA	9180
TTCCTGGAAT	CAGAACACTT	CCAATAATGT	TAACCACAAA	AAGTGTCAGA	TAGGATTGCC	9240
CTAGCTGTTG	GATATAAGGA	TTGCGAGTTG	CATAGCGAAG	AACAATAATC	GCGGCAAATA	9300
GCCCATAAAG	AGAGGTAGAG	GCGCCTGCTG	CTAAGGATTT	AGGACTAAAT	ACAAAAACAA	9360
AGAGATTGCC	CATCATTCCT	GATAAAAGAT	AGAGAAAGAA	AAACTGCTTA	GAACCGAAAA	9420
TCTCCTCTAC	CTGCCTTCCA	AGATAATAAA	GTGAAAGCAT	ATTAACAATG	AAATGTTCCC	9480
ACCCAATATG	AACAAAAATG	GCAGACAAGA	GACGCCAAAC	CTGCTCGGGA	AAGAGGCGAA	9540
TAGCTGGCCC	ATACATGGCT	CCAAATCGAA	ATAATGTATC	TGCCCTGTCA	AAGTTTCCGC	9600
CTGCAGTGAC	CAACATTAGT	AAAAATACCA	AGGCCGTCAC	TAAGAGGAAG	AAACTCGTCA	9660
CAGGGTAACG	TCTATCAAAG	ATTTCCTTCA	ТСААТТААТА	CCTCCTGAAC	AGGAATATCA	9720
TGGTTTTCAG	GTATAAAGTC	CTGAATTTGA	CAAGGATATA	TCGTACTCAA	AGTACGACCA	9780
GAAAAATGTT	CCAGATAGCG	GTCATAATAG	CCTCCACCGT	ATCCTATCCG	ATATCCTTTC	9840
GTCGTAAAAG	CCAGACCAGG	AACATGAATC	AAATCAATCT	GAGATGCATC	CACCACTTCC	9900
AAATCTCCCT	GTAGCTCCAG	TAAGGCAAAG	AAAGTTTTTA	CCAACTGTTG	CGGATCATAG	9960
ACCACAAAGT	CCATGCGCCC	CTTGGGATAA	GTTTTGGGTA	TTAAAACCTT	CTTGCCGTCC	10020
TTCAGCGCCT	GCTCAATCAG	TTCCTGCGTT	TGAAACTCAT	GAGAAAAAGA	GAGGTAGGTT	10080
GCGATGACCT	TGGCTTCTTG	ATAAAAGGGG	TGTTGTAAAA	GCCGCTCGGT	TAAAGCTTGG	10140
TCTATAGCCT	GTTTTTGCTC	TTGAGATATA	GCCTTCATTT	CATGCAAGAC	TTGCTTGCGT	10200
AATTCCGATT	TCATAGACAA	GCCCTCTATT	CTGCTGCCTT	CTTTTTCAGG	AAACTAGACA	10260
CCGCAGCCAC	CCCAATAGCT	AAGACTTCTT	CCTTAGGACT	CATTTGAGGG	TGATGAAGAG	10320
CGTAGGGACT	ATCGATACCT	AGCCAAAACA	TCACGCCATC	AACCTTTGAA	AGGAGATAAC	10380
CAAAGTCCTC	GCCTGTCATA	GCAGGTTCGA	TATCAATCAA	CTCGATTCCG	TCTTTTTCGT	10440
CAAAGAAGTC	CATCAGTTCA	CGCGCCAAGG	CTGGATTGTT	CTCAACAGGT	AGGTATCCAC	10500
CTTGTTTGAG	TTCCACTTCG	ACTTCCATAT	CAAAGGCAGC	TGCAACCCCT	TCTGCAACTG	10560
TTTTTACCCT	CTTTTGCACC	AAGAGACTCA	TGTCCTGTGT	CAAGGCACGA	ATAGTTCCAT	10620
GTAAAAAAGC	TGTGTCTGTG	ATGACATTGT	TGGTGGTTCC	AGCTTGAAAA	ACGCCGAAGG	10680
TCACCACTGC	TCCCTCGATT	GGGTTGACAT	TGCGGCTAAC	AACTGACTGC	ACTTGGGTCA	10740
CAAAGTAACT	AGCCGCCACC	AAGGCGTCAT	TGGCTTCATG	AGGAAAAGCT	GCGTGGCCAC	10800
CTTTGCCTTT	GAAACGGATC	TTCACCTCGC	AAGTTCCTGC	AAAGAGTGTA	TGAGTATTAG	10860

			998			
TCGCAATCTG	GCCGACTTTC	AAATCTGGAC		ACCATAGAAT	TGATCTGGCA	10920
ACCAATCTCC	AAAAGCACCG	TCCTCATACA	TGAGCATACC	ACCAGCTTCA	TTTTCTTCAG	10980
CAGGCTGAAA	TAGAAAGAGC	AGATTATTCT	TGGGTTGCTC	CTCAAGGGCG	CGCTCAAGAC	11040
AGCCTAAGGC	AATGGTCATA	TGAAAATCAT	GGACACAGGC	ATGCATGCGA	CCTTGGTGTT	11100
GAGAAGCAAA	AGGTAGACCT	GTTTGTTCGA	CGATAGGCAG	GCCATCAATA	TCTGTCCGCC	11160
AACCAATGGT	TCGCTCCGGC	TGACTTCCCT	GCAGGTAGAC	CAAAATCCCT	GTCCGCCAAG	11220
TACGAATTTG	AACAAAATCC	TTGCCCGTAG	TCAATTTCTC	AATCACATCC	AGCAAATAAG	11280
CCTGAGTCTT	GAACTCCTCC	AAGCCAATCT	CTGGAATCTG	GTGTAAATCT	CGTCTAGTCT	11340
GAATCAAATC	TAACATCTAT	CTGTCCTCCG	ATATAGCAGA	AAGAGGCTGG	AAAAAGGGTT	11400
CCGCCTCTTT	TTTACTTTTA	CAATTACAAG	GTACGAAGCG	CATCCTCTAG	CGCTGTTTTT	11460
TGTTGAGTTT	GGGCATCAAT	TTCTTTGATA	ATACGAGCTG	GAACACCTGC	TACTACCACG	11520
TTTTCTGGGA	CATCTTGGGT	AACAATAGCT	CCTGCTGCGA	CAACTGAACC	ACTACCGATT	11580
TGGACTCCTT	CGATAACCAC	TGCATTAGCA	CCGATAAGAA	CATTGTCTCC	GACACGGACT	11640
GGTTCAGCAC	TAGCTGGCTC	AATCACACCT	GCCAAAACTG	CACCTGCACC	AACGTGGCTA	11700
TTTTTTCCAA	CGATGGCACG	GCCACCAAGG	ATGGCACCCA	TGTCAATCAT	GGTTCCAGCA	11760
CCGATTTCAG	CACCGATATT	GATAACAGAT	CCCATCATGA	TAACAGCATT	GTCACCAATT	11820
TCCACCTGGT	CACGGATAAT	CGCACCTGGC	TCGATACGAG	CGTTGATAGC	ACGCTTATCT	11880
AGCAAAGGAA	CTGCAGAATT	ACGAGCATCT	TGCTCGACAA	CATAATCTTG	ATTTTCTACC	11940
AAACCTTCAA	GAAGCGGAGC	CACATCCTTC	CAGTCTCCGA	ATAGGACATT	TCCTAGTTTG	12000
ACAACAGAGC	TAGGCACAGC	AGTTGCGAGT	TGCCCCTCAA	AGGTTACTTT	GACACTGGTT	12060
PTCTTTTCAG	CATTGGCGAT	AAATTGGATA	ATTTCTTGAG	CGTTCATTTT	TGTAGCAGTC	12120
ATAGGTG						12127

### (2) INFORMATION FOR SEQ ID NO: 149:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 12566 base pairs

  - (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 149:

CCATCCTTCT GTTGATGTGA CAGGAATGAT GATAAATCAA CCAGTAGCTA GTCGCGAAGA 60 GGTGACAGAG GCTTTGAGTC ACTTGGCGGT AGAGCACAAT AGTCTCATTG CTCGTCGAAT 120